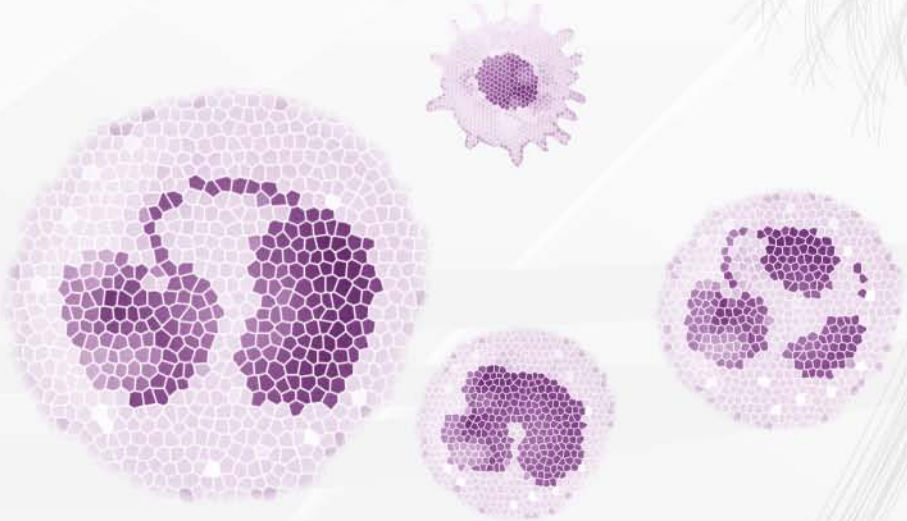
GeneTex

Your Expertise, Our Antibodies, Accelerated Discovery.

Innate Immunity & Inflammation

Antibodies and Research Tools

Quality Antibodies
Quality Results



www.genetex.com

ANTIBODIES

The Company

GeneTex produces high quality antibodies validated through extensive research, development, and testing. Our staff and researchers have collectively earned a trusted reputation from the research community for the quality and reliability of our antibodies. The secret to our success is the complementation of scientific expertise and production mastery in our state-of-the-art laboratory and animal facility.

Our facility provides large-scale antibody production capabilities, which employ highly specific antigen affinity purification. This has facilitated the establishment of a comprehensive antibody collection covering a wide spectrum of research fields.

Because of GeneTex's extensive experience in antibody manufacturing, we are uniquely able to serve the demands of the scientific community by providing accurate technical support and reliable customer service.

Table of Contents

Application Key

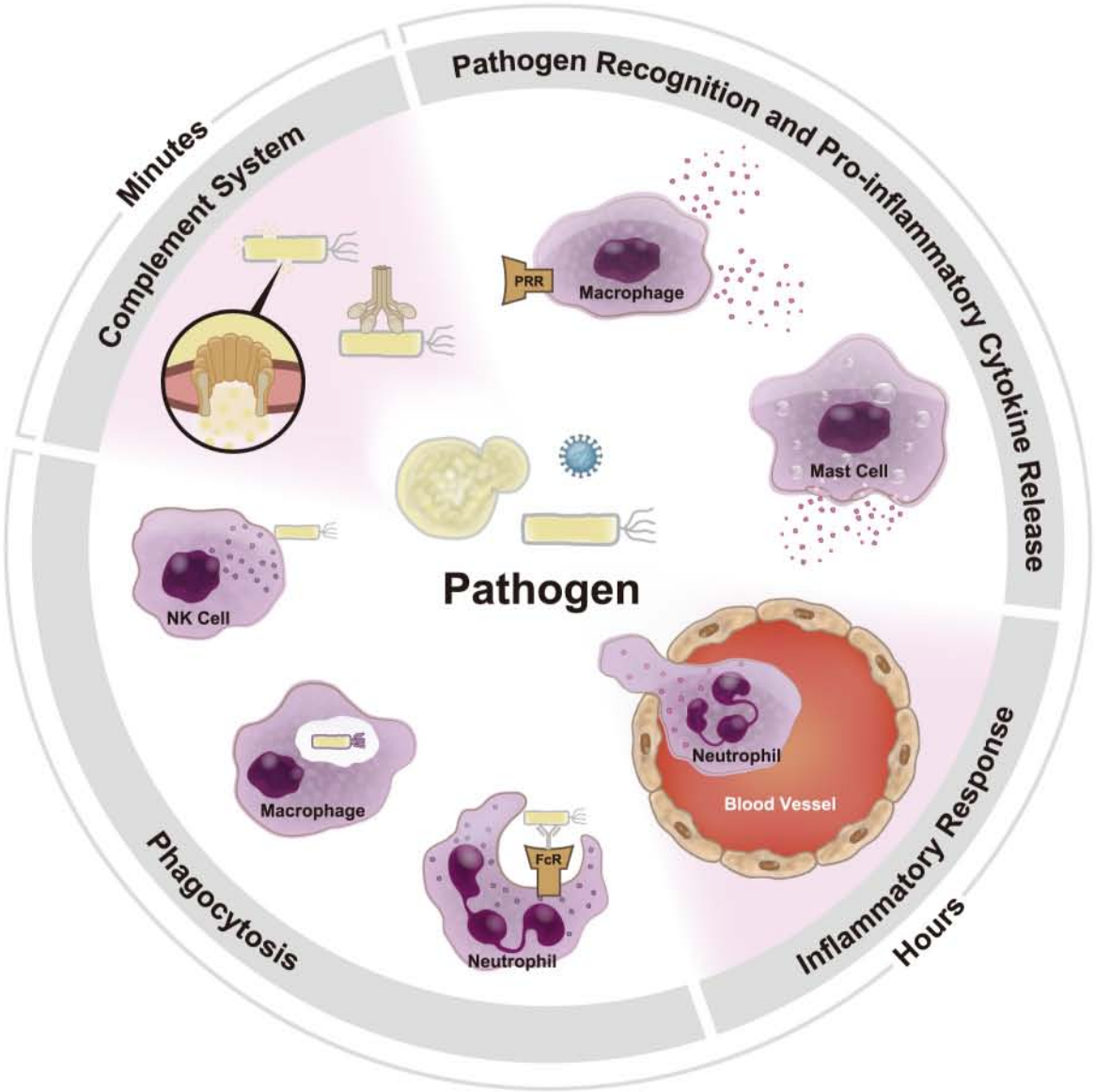
Blocking – Blocking
DID – Double immonodiffusion
Dot – Dot blot
ELISA – Enzyme-linked immunosorbent assay
EIA – Enzyme immunoassay
FACS – Fluorescence-activated cell sorting
FuncS – Functional studies
IA – Immunoassay
IE– Immunoelectrophoresis
I-ELISA – Indirect Enzyme-linked immunosorbent assay
Inhib – Inhibition assay
ICC/IF – Immunocytochemistry / Immunofluorescence
IHC – Immunohistochemistry
IHC-Fr – Immunohistochemistry frozen sections
IHC-P – Immunohistochemistry paraffin-embedded sections
IP – Immunoprecipitation
Neut – Neutralizing
Puri – Purification
RIA – Radioimmunoassay
RID – Radial immunodiffusion
RIE– Rocket immunoelectrophoresis
WB – Western Blot

Host & Reactivity Key

Bb - Baboon
Cat - Cat
Cow - Cow
Dog - Dog
Gpig- Guinea pig
Gt - Goat
Hm - Hamster
Hu - Human
Mk - Monkey
Ms - Mouse
Pig - Pig
Rat - Rat
Rb - Rabbit
Sh - Sheep

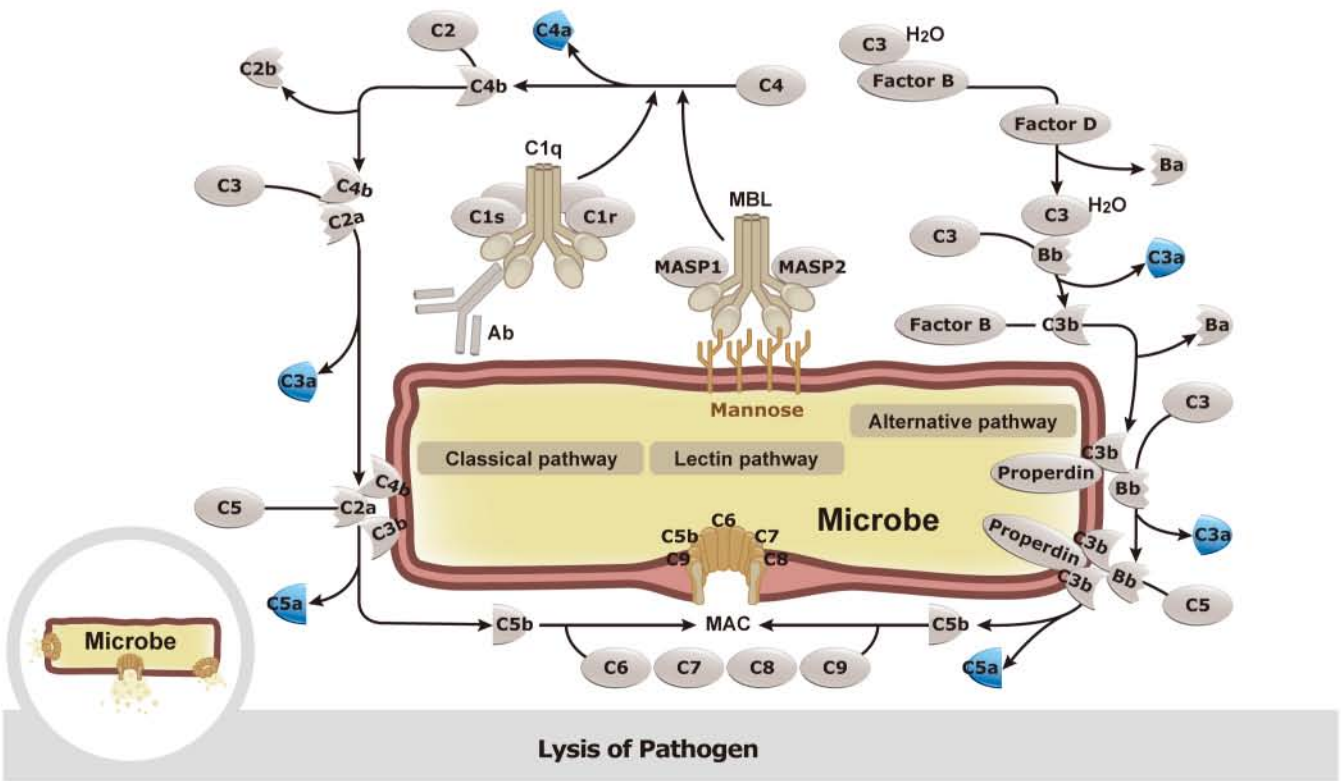
Innate Immunity

The immune system is composed of the innate and adaptive immunities. The innate immune system is an evolutionarily conserved defense mechanism against invading microorganisms. It nonspecifically destroys pathogens through various immune responses including activation of the complement system, inflammation, phagocytosis and cellular responses that further activate specific adaptive immune responses.



Complement System

The complement system acts as a major nonspecific defense mechanism. It is a proteolytic cascade in blood plasma that marks pathogens and recruits phagocytic cells to the site of invastion to trigger pathogen destruction. There are three distinct pathways: the classical, the lectin and the alternative pathways, which are activated by antigen-antibody complexes, sugar residues and activating surfaces respectively. All three pathways converge through the cleavage of C3 and C5. Activation of complement system leads to phagocytolysis (C5b), chemotaxis (C5a), inflammation and increased capillary permeability (C3a, C5a) and opsonization (C3b). Deficiencies of the complement system result in various diseases, including immune complex disorders, susceptibility to bacterial infections, systemic lupus erythematosus (SLE), and hereditary angioneurotic edema (HANE).



Lysis of Pathogen

Anaphylatoxin

Complement System

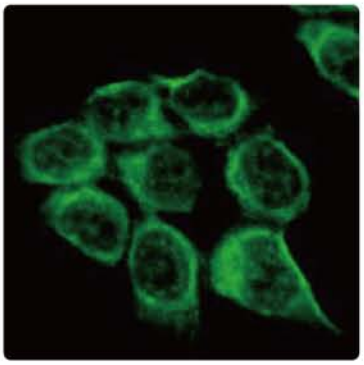
Classical pathway

Citation

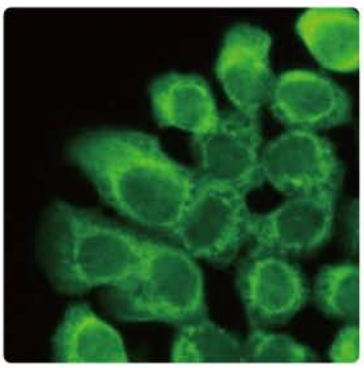
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX73479	C1q antibody (FITC)	Rb pAb	Hu	ICC/IF
GTX42615	C1q antibody [3R9/2]	Ms mAb	Hu	ELISA, IHC-Fr, WB
GTX28779	C1q antibody	Sh pAb	Hu	DID, IE, RID, RIE
GTX112883	C1qA antibody	Rb pAb	Hu, Ms	ICC/IF, WB
GTX80957	C1qB antibody	Rb pAb	Hu	ELISA, FACS, WB
GTX62069	C1qC antibody [EPR2984Y]	Rb mAb	Hu	FACS, ICC/IF, IHC, IP, WB
GTX104350	C1r antibody	Rb pAb	Hu	ICC/IF, WB
GTX28781	C1r antibody	Sh pAb	Hu	DID, IE, RID, RIE
GTX105464	C1s antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX114291	C1s antibody	Rb pAb	Hu	WB
GTX105404	C2 antibody	Rb pAb	Hu	ICC/IF, WB
GTX101316	C3 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX112885	C3 antibody	Rb pAb	Hu	WB
GTX77263	C3 antibody	Gt pAb	Ms	ELISA, IHC
GTX72994	C3 antibody	Gt pAb	Hu, Ms, Bb, Gpig, Hm, Hrs, Pig, Rb, Rat	FACS, IE, ICC/IF, WB
GTX42612	C3a antibody [10-21]	Ms mAb	Hu	ELISA, WB
GTX11874	C3/C3a antibody [2898]	Ms mAb	Hu	IA, WB
GTX37306	C3b antibody	Rb pAb	Hu	ELISA, ICC/IF, IHC-P, WB
GTX42605	C3c antibody [10-02A]	Ms mAb	Hu	ELISA, FACS, IHC-Fr, WB
GTX73472	C3c antibody (FITC)	Rb pAb	Hu, Ms, Cat, Cow, Dog, Gt, Gpig, Pig, Rat, Sh	ICC/IF
GTX42604	C3d antibody [053A-1149.3.1.4]	Ms mAb	Hu	ELISA, FACS, IHC-Fr, WB
GTX28785	C3d antibody	Sh pAb	Hu	DID, IE, RID, RIE
GTX110413	C4 antibody	Rb pAb	Hu	IHC-P, WB
GTX28786	C4 antibody	Sh pAb	Hu, Ms, Cat, Dog, Gpig, Hrs, Pig, Rat	DID, IE, RID, RIE
GTX110502	C4b antibody	Rb pAb	Hu	WB
GTX42600	C4c antibody [10-12]	Ms mAb	Hu	ELISA, FACS, IHC-Fr, WB
GTX42598	C4d antibody [10-11]	Ms mAb	Hu	ELISA, ICC/IF, IHC-Fr, IHC-P, WB
GTX42599	C4d antibody [057-51.5.1.6]	Ms mAb	Hu	ELISA, FACS, IHC-Fr
GTX111625	C5 antibody	Rb pAb	Hu	IHC-P, WB
GTX42596	C5 antibody [10-04]	Ms mAb	Hu	ELISA, WB, FuncS
GTX28789	C5 antibody	Sh pAb	Hu	DID, ID
GTX59695	C5a antibody	Rb pAb	Ms	WB
GTX59696	C5a antibody	Rb pAb	Hu	WB

Membrane attack complex (MAC)

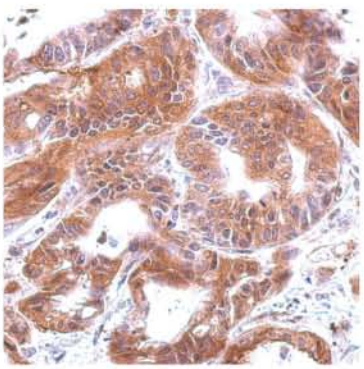
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX81643	C6 antibody	Rb pAb	Hu	ELISA, FACS, IHC, WB
GTX42595	C6 antibody [056B-214.2.4.2]	Ms mAb	Hu	ELISA, FACS, IHC-Fr
GTX80456	C7 antibody	Rb pAb	Hu	ELISA, FACS, IHC, WB
GTX42594	C7 antibody [030-113.7.5.4]	Ms mAb	Hu	ELISA, WB, FuncS
GTX28791	C7 antibody	Sh pAb	Hu	DID, IE, RID
GTX28792	C8 antibody	Sh pAb	Hu, Cow, Gt	DID, IE, RID, RIE
GTX118877	C8b antibody	Rb pAb	Hu	IHC-P, WB
GTX109952	C9 antibody	Rb pAb	Hu	IHC-P, WB
GTX110161	C9 antibody	Rb pAb	Hu, Ms	ICC/IF, WB
GTX28798	C9 antibody	Sh pAb	Hu	DID, IE, RID, RIE



C1r antibody (GTX104350):
ICC/IF analysis of methanol-fixed HCT116 cells.



C2 antibody (GTX105404):
ICC/IF analysis of methanol-fixed A431 cells.



C4 antibody (GTX110413):
IHC-P analysis of hepatoma tissue.

Lectin pathway

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX39753	MBL antibody [SN1 (BGN/08/081)]	Ms mAb	Hu	IHC-P, WB
GTX39756	MBL antibody [BGN/08/083 (SN3)]	Ms mAb	Hu	ELISA, IHC-P
GTX89586	MBL antibody	Gt pAb	Hu	ELISA, WB
GTX86929	MASP1 (cleaved Arg448) antibody	Rb pAb	Hu	ELISA, WB
GTX47144	MASP2 antibody	Rb pAb	Hu, Ms	WB
GTX37380	MASP2 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC-P, WB

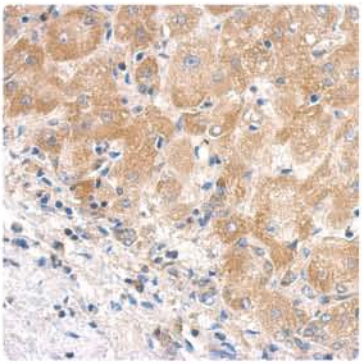
Alternative pathway

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX80605	Factor B antibody	Rb pAb	Hu, Ms	ELISA, IHC, WB
GTX81508	Factor B Antibody	Rb pAb	Hu	ELISA, IHC, WB
GTX41634	Ba antibody [014III-33.2.4.3]	Ms mAb	Hu	ELISA, FACS, IHC-Fr, WB, FuncS
GTX41633	Bb antibody [10-09]	Ms mAb	Hu	ELISA, FACS, IHC-Fr, WB

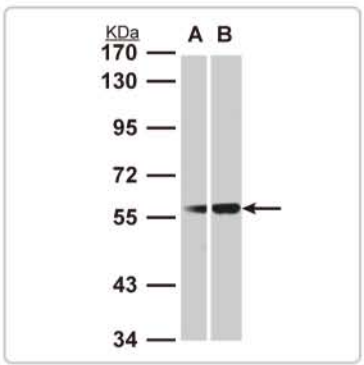
Regulators

Citation

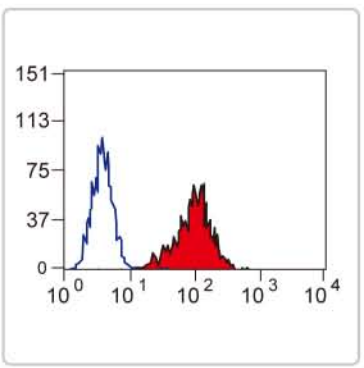
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX105316	C1 inhibitor antibody	Rb pAb	Hu, Cow	IHC-P, WB
GTX113229	CD46 antibody	Rb pAb	Hu	ICC/IF, WB
GTX37749	CD46 antibody	Rb pAb	Ms, Rat	ELISA, WB
GTX20789	CD46 antibody [MEM-258]	Ms mAb	Hu	FACS, IP, WB
GTX103951	CD55 antibody	Rb pAb	Hu	ICC/IF, WB
GTX113170	CD55 antibody	Rb pAb	Hu	ICC/IF, WB
GTX75213	CD55 antibody [67]	Ms mAb	Hu	FACS, IHC-Fr
GTX76617	CD55 antibody [BRIC-216]	Ms mAb	Hu	IP, FACS, WB
GTX37747	CD59 antibody	Rb pAb	Hu, Ms, Rat	ELISA, WB
GTX74620	CD59 antibody [MEM-43]	Ms mAb	Hu	ELISA, FACS, IHC-Fr, IHC-P, IP, WB
GTX29183	CD59 antibody [MEM-43/5]	Ms mAb	Hu, Ms	FACS, IP, WB
GTX76425	CD59 antibody [YTH53.1]	Rat mAb	Hu	WB, IHC-Fr, FACS, IHC-P
GTX81518	CPN1 antibody	Rb pAb	Hu, Ms	ELISA, WB
GTX81514	CPN2 antibody	Rb pAb	Hu	ELISA, FACS, IHC, WB
GTX41626	Factor I antibody [OX-21]	Ms mAb	Hu	ELISA, IP, RIA, WB
GTX41627	Factor I antibody [3R/8]	Ms mAb	Hu	ELISA, IHC-Fr, WB, FuncS
GTX100305	Factor H antibody	Rb pAb	Hu	IHC-P, WB
GTX76246	Factor H antibody [OX-21]	Ms mAb	Hu	ELISA, IP, RIA, WB
GTX89512	Factor H antibody	Gt pAb	Hu	ELISA, WB
GTX41202	Factor P antibody [10-18]	Ms mAb	Hu	ELISA, IHC-Fr, Functional Assay
GTX41200	Factor P antibody [10-24]	Ms mAb	Hu	ELISA, IHC-Fr



C5 antibody (GTX111625):
IHC-P analysis of hepatoma tissue.



C1 inhibitor antibody (GTX105316):
WB analysis of (A) 293T and (B) HeLaS3 cell lysates.



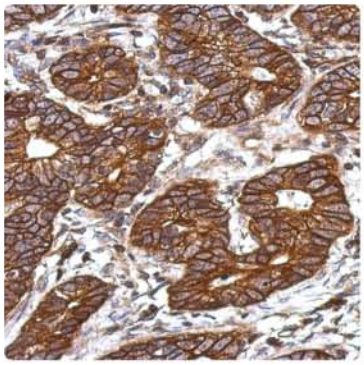
CD55 antibody (GTX75213):
FACS analysis of human peripheral blood lymphocytes with GTX75213 (red) or an isotype control (blue).

Complement System

Complement component receptors

Citation

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX37450	CR1 / CD35 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC-P, WB
GTX76302	CR1 / CD35 antibody [E11]	Ms mAb	Hu, Bb, Mk	FACS, IHC-Fr, IHC-P, WB
GTX44217	CR1 / CD35 antibody [J3D3]	Ms mAb	Hu	ELISA, IHC-P, Blocking, FACS, IHC-Fr
GTX81619	CR2 / CD21 antibody	Rb pAb	Hu	ELISA, FACS, IHC, WB
GTX75378	CR2 / CD21 antibody [2G9]	Ms mAb	Hu	IHC-Fr, IHC-P
GTX42254	CR2 / CD21 antibody [CA2.1D6]	Ms mAb	Cat, Dog, Hrs	FACS, IHC-Fr, IP
GTX100827	CR3 / CD11b antibody	Rb pAb	Hu	WB
GTX113089	CR3 / CD11b antibody	Rb pAb	Hu	IHC-P, WB
GTX76293	CR3 / CD11b antibody [ICRF44]	Ms mAb	Hu, Bb, Mk	FACS, IHC-Fr, IP
GTX76062	CR3 / CD11b antibody [OX-42]	Ms mAb	Rat	FACS, IHC-Fr, IP
GTX42476	CR3 / CD11B antibody [5C6]	Rat mAb	Hu, Ms	FACS, ICC/IF, IHC-Fr, IP, FuncS
GTX102519	CR4 / CD11c antibody	Rb pAb	Hu	WB
GTX11029	CR4 / CD11c antibody [3.9]	Ms mAb	Hu, Ms, Rat	FACS, IHC-Fr, IP
GTX75797	CR4 / CD11c antibody [BU15]	Ms mAb	Hu, Dog, Mk	FACS, IHC-Fr, IP
GTX114293	C3aR antibody	Rb pAb	Hu	IHC-P, WB
GTX42608	C3aR antibody [hC3aRZ1]	Ms mAb	Hu	FACS, IHC-Fr
GTX74845	C5aR / CD88 antibody [S5/1]	Ms mAb	Hu, Rb	FACS, IHC-P, WB
GTX41772	C5aR / CD88 antibody [10/92]	Rat mAb	Ms	FACS, IHC-Fr



C3aR antibody (GTX114293):
IHC-P analysis of colon cancer.

Quality Antibodies • Quality Results

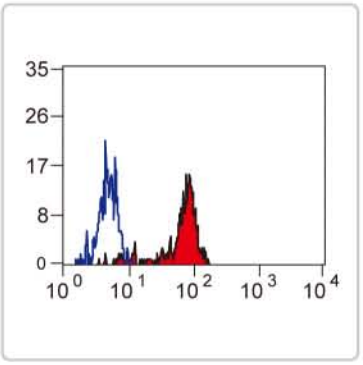
Fc Receptors

Fc receptors (FcRs) are membrane proteins that are found in various phagocytes such as basophils, mast cells, neutrophils, monocytes and macrophages. FcRs binds to antibodies that are attached to infected cells or invading pathogens and then trigger phagocytosis to destroy microbes or infected cells. The types of FcR are classified based on the isotype of antibody they recognize. IgG, IgA and IgE bind to FcγR, FcαR and Fc εR, respectively.

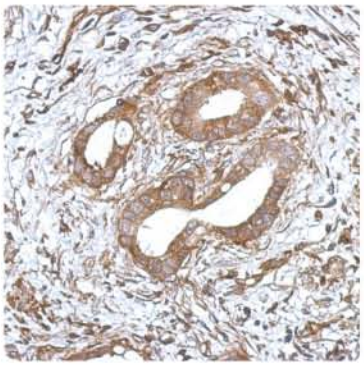
FcRs

Citation

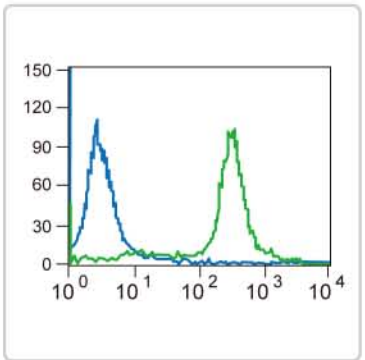
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX63490	Fcα RI / CD89 antibody [EPR4622(2)]	Rb mAb	Hu	FACS, ICC/IF, IHC, IP, WB
GTX75406	Fcα RI / CD89 antibody [MIP8a]	Ms mAb	Hu	ELISA, FACS, IP, WB
GTX63408	Fcγ RI / CD64 antibody [EPR4623]	Rb pAb	Hu	FACS, IP, WB
GTX76484	Fcγ RI / CD64 antibody [10.1]	Ms mAb	Bb, Mk	FACS
GTX80501	Fcγ RIb antibody	Rb pAb	Hu	ELISA, IHC, WB
GTX74624	Fcγ RII / CD32 antibody [AT10]	Ms mAb	Dog, Mk	FACS, IHC-Fr, IP
GTX112708	Fcγ RIIa / CD32a antibody	Rb pAb	Hu	IHC-P, WB
GTX80944	Fcγ RIIa / CD32a antibody	Rb pAb	Hu	ELISA, FACS, WB
GTX100262	Fcγ RIIb / CD32b antibody	Rb pAb	Hu	ICC/IF, WB
GTX80630	Fcγ RIIc antibody	Rb pAb	Hu, Ms	ELISA, IHC, WB
GTX20664	Fcγ RIII / CD16 antibody [MEM-154]	Ms mAb	Hu	FACS, IP, WB
GTX30884	Fcγ RIII / CD16 antibody [YFC120.5]	Rat mAb	Hu	FACS, IHC-Fr
GTX62604	Fcγ RIIIa / CD16a antibody [EPR4333]	Rb mAb	Hu, Ms, Rat	ICC/IF, WB
GTX75285	Fcγ RIIIb / CD16b antibody [1D3] (FITC)	Ms mAb	Hu	FACS
GTX46569	Fcε RIα antibody	Rb pAb	Hu	WB
GTX41158	Fcε RIα antibody [9E1]	Ms mAb	Hu	ELISA, FACS, ICC/IF, IP, WB
GTX108487	Fcε RIγ antibody	Rb pAb	Hu	IHC-P, WB
GTX113692	Fcε RII / CD23 antibody	Rb pAb	Hu	WB
GTX17063	Fcε RII / CD23 antibody	Rb pAb	Hu	IHC-P
GTX75383	Fcε RII / CD23 antibody [1B12]	Ms mAb	Hu	FACS, IHC-Fr, IHC-P
GTX75087	Fcε RII / CD23 antibody [2G8]	Rat mAb	Ms	FACS, IP



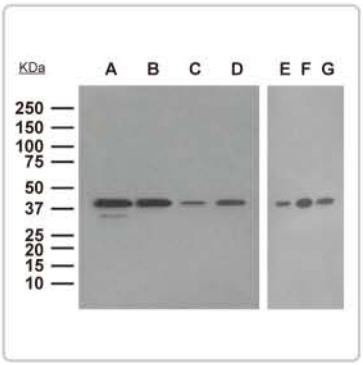
Fcγ RI / CD64 antibody [10.1] (GTX76484):
FACS analysis of human peripheral blood monocytes using GTX76484 (red) or an isotype control (blue).



Fcγ RIIa / CD32a antibody (GTX112708):
IHC-P analysis of gastric cancer.



Fcγ RIIa / CD32a antibody (GTX80944):
FACS analysis of MDA-MB435 cells (green) or a negative control cell (blue).



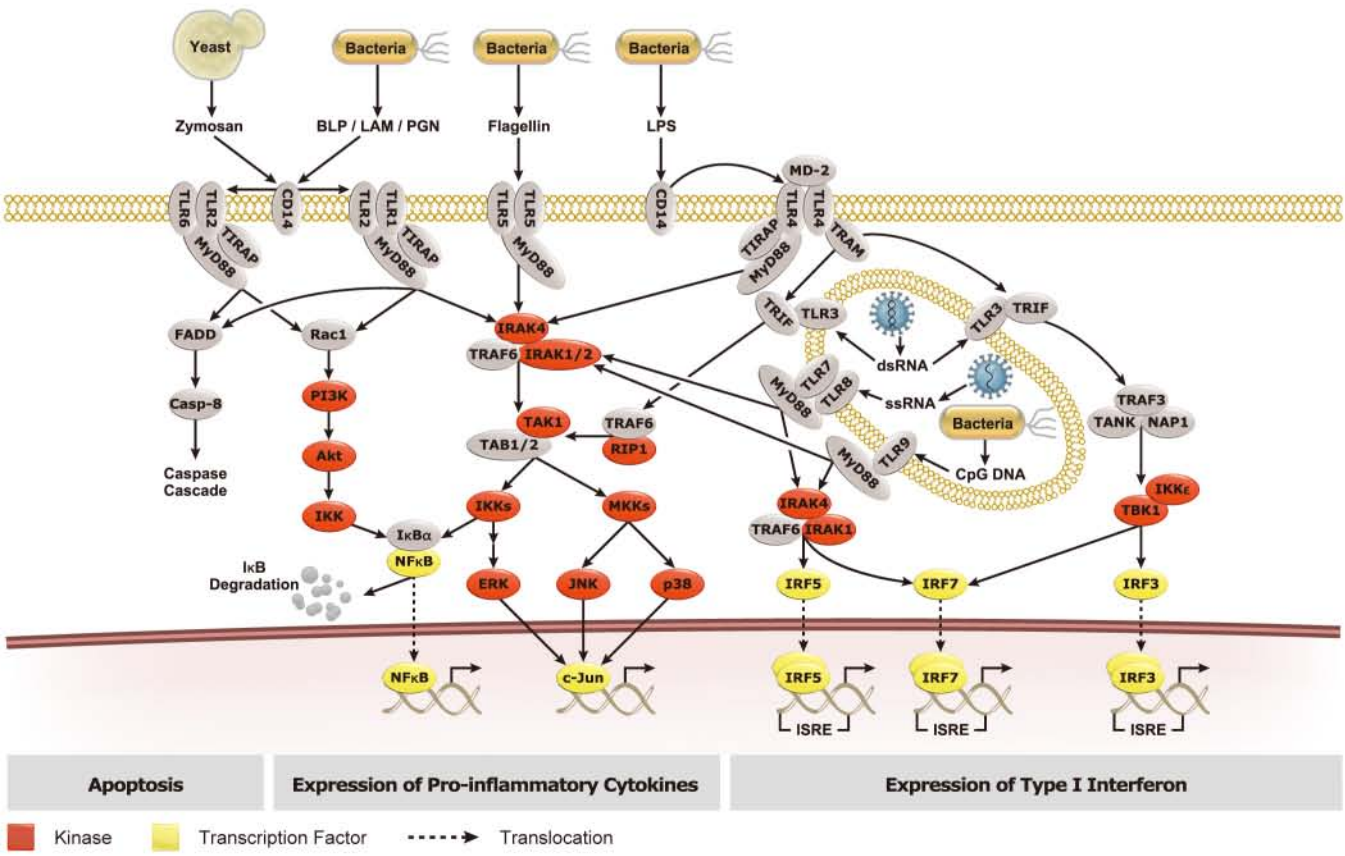
Fcγ RIIIa / CD16a antibody [EPR4333] (GTX62604):
WB analysis of (A) U937, (B) THP-1, (C) Jurkat, (D) K562, (E) C6, (F) Raw264.7 and (G) PC-12 cell lysates.

Pathogen Recognition Receptors

The innate immune response relies on the identification of pathogen-associated molecular patterns (PAMPs) that are only present in microbes but not in host. PAMPs, associated with pathogens or cellular stress, are recognized by a limited set of pattern recognition receptors (PRRs) including Toll-like receptors (TLRs), NOD-like receptors (NLRs) and RIG-I-like receptors (RLRs). Upon detection of PAMPs, the PRRs activate intracellular signaling pathways that rapidly trigger inflammatory and immune responses leading to efficient destruction of invading pathogens.

Toll-like Receptors (TLRs)

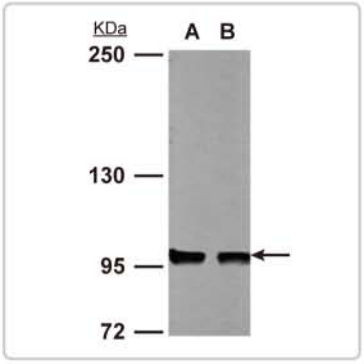
The TLR family is the best characterized of the PRRs. They recognize a variety of PAMPs from bacteria (LPS, flagellin, CpG DNA), viruses (ssRNA, dsRNA) and fungi. There are three common pathways involved in TLR signaling: the MyD88-dependent, the alternative MyD88 and the TRIF-dependent pathways. Upon activation by PAMPs, all TLRs except TLR3 activate MyD88-dependent pathways to distinctly activate NF-κB, and c-Jun and the subsequent inflammatory responses. Upon activation by viral RNA, TLR7/8 and TLR9 initiate an alternate MyD88 pathway to induce interferon expression and an antiviral response. The TRIF-dependent pathway is restricted to TLR3 and TLR4-TRAM signaling which mediates T cell stimulation.



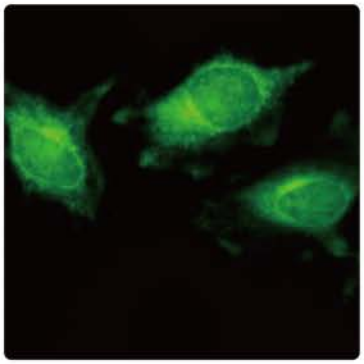
TLRs

Citation

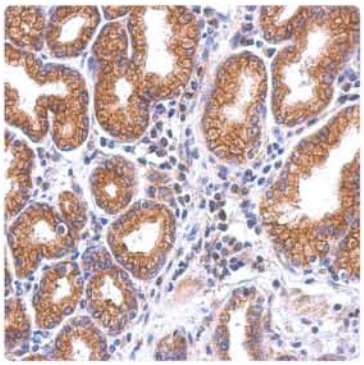
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX37329	TLR1 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC-P, WB
GTX47794	TLR1 antibody	Rb pAb	Hu	ICC/IF, IHC, WB
GTX11209	TLR1 antibody [GD2.F4]	Ms mAb	Hu	FACS
GTX102577	TLR2 antibody	Rb pAb	Hu	WB
GTX77614	TLR2 antibody [T2.5]	Ms mAb	Hu, Ms	ELISA, FACS, ICC/IF, IHC-Fr, IP
GTX29100	TLR2 antibody [TL2.1]	Ms mAb	Hu, Mk	IHC-Fr, IP, FACS, FuncS
GTX21655	TLR2 antibody	Gt pAb	Hu	ELISA, ICC/IF, IHC-P
GTX113022	TLR3 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX13915	TLR3 antibody [40C1285]	Ms mAb	Hu	FACS, IP, WB
GTX12085	TLR3 antibody [TLR3.7]	Ms mAb	Hu	Inhib, WB, FACS, IP
GTX125909	TLR4 antibody	Rb pAb	Hu	IHC-P, WB
GTX13556	TLR4 antibody	Rb pAb	Hu, Ms	FACS, ICC/IF, IHC-Fr, IHC-P, WB
GTX75742	TLR4 antibody [HTA125]	Ms mAb	Hu, Gpig, Pig, MK	FACS, IP, WB
GTX29104	TLR4 antibody [MTS510]	Rat mAb	Ms	FACS, IP
GTX102706	TLR5 antibody	Rb pAb	Hu	WB
GTX13868	TLR5 antibody	Rb pAb	Hu, Ms, Rat	WB
GTX21654	TLR5 antibody	Gt pAb	Hu	ELISA, ICC/IF, IHC-P
GTX85074	TLR6 antibody	Rb pAb	Hu	ELISA, IHC, WB
GTX85075	TLR6 antibody	Rb pAb	Hu, Ms	ELISA, ICC/IF, WB
GTX125910	TLR7 antibody	Rb pAb	Hu	IHC-P, WB
GTX13730	TLR7 antibody	Rb pAb	Hu, Ms, Rat	FACS, IHC-Fr, WB
GTX37211	TLR7 antibody	Ms mAb	Hu	ELISA, WB
GTX77620	TLR8 antibody	Rb pAb	Hu, Ms	ICC/IF, WB
GTX59593	TLR8 antibody [44B05]	Ms mAb	Hu	FACS, WB
GTX12120	TLR8 antibody [44C143]	Ms mAb	Hu, Ms	FACS, WB
GTX100726	TLR9 antibody	Rb pAb	Hu	IHC-P, WB
GTX111547	TLR9 antibody	Rb pAb	Hu	WB
GTX76032	TLR9 antibody [5G5]	Ms mAb	Hu, Ms	FACS, IHC-Fr, WB
GTX47849	TLR11 antibody	Rb pAb	Hu, Mk	IHC, WB
GTX77616	TLR11 antibody	Rb pAb	Ms	WB



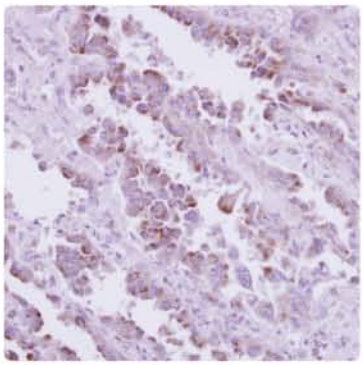
TLR3 antibody (GTX113022):
WB analysis of (A) K562 and (B) THP-1 cell lysates.



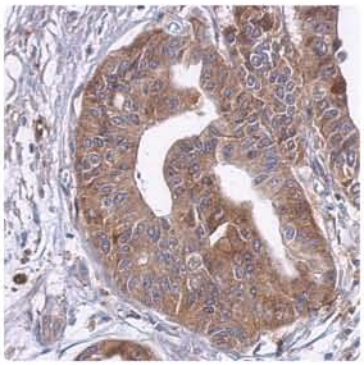
TLR3 antibody (GTX113022):
ICC/IF analysis of methanol-fixed HeLa cells.



TLR7 antibody (GTX125910):
IHC-P analysis of colon carcinoma tissue.



TLR9 antibody (GTX100726):
IHC-P analysis of lung cancer.



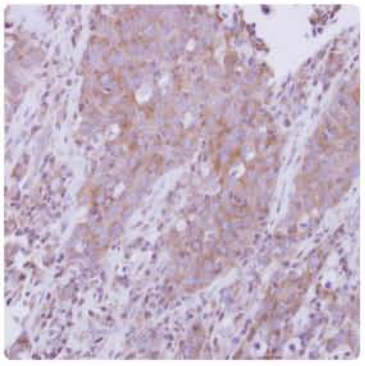
TLR4 antibody (GTX125909):
IHC-P analysis of hepatoma tissue.

Pathogen Recognition Receptors

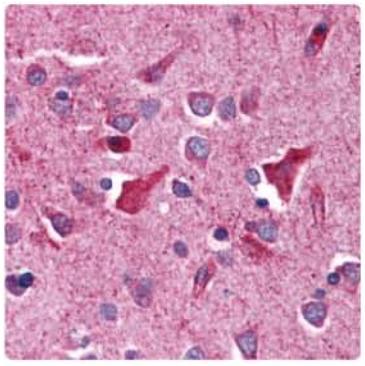
Adaptor molecules of TLR signaling

Citation

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX85517	MD-2 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, WB
GTX85121	MD-2 antibody [1A2E3]	Ms mAb	Hu, Ms, Rat	ELISA, IHC, WB
GTX112987	MyD88 antibody	Rb pAb	Hu	IHC-P, WB
GTX89605	MyD88 antibody	Gt pAb	Hu, Ms, Dog, Rat	ELISA, IHC, WB
GTX77618	TIRAP antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P
GTX13684	TIRAP antibody [20D1055]	Ms mAb	Hu	WB
GTX89359	TIRAP antibody	Gt pAb	Hu	ELISA, WB
GTX38924	TRAM / TICAM2 antibody	Rb pAb	Hu	IHC-Fr, WB
GTX85636	TRAM / TICAM2 antibody	Rb pAb	Hu	IHC-P, WB
GTX104744	TRIF / TICAM1 antibody	Rb pAb	Hu	WB
GTX13810	TRIF antibody	Rb pAb	Hu, Ms	WB



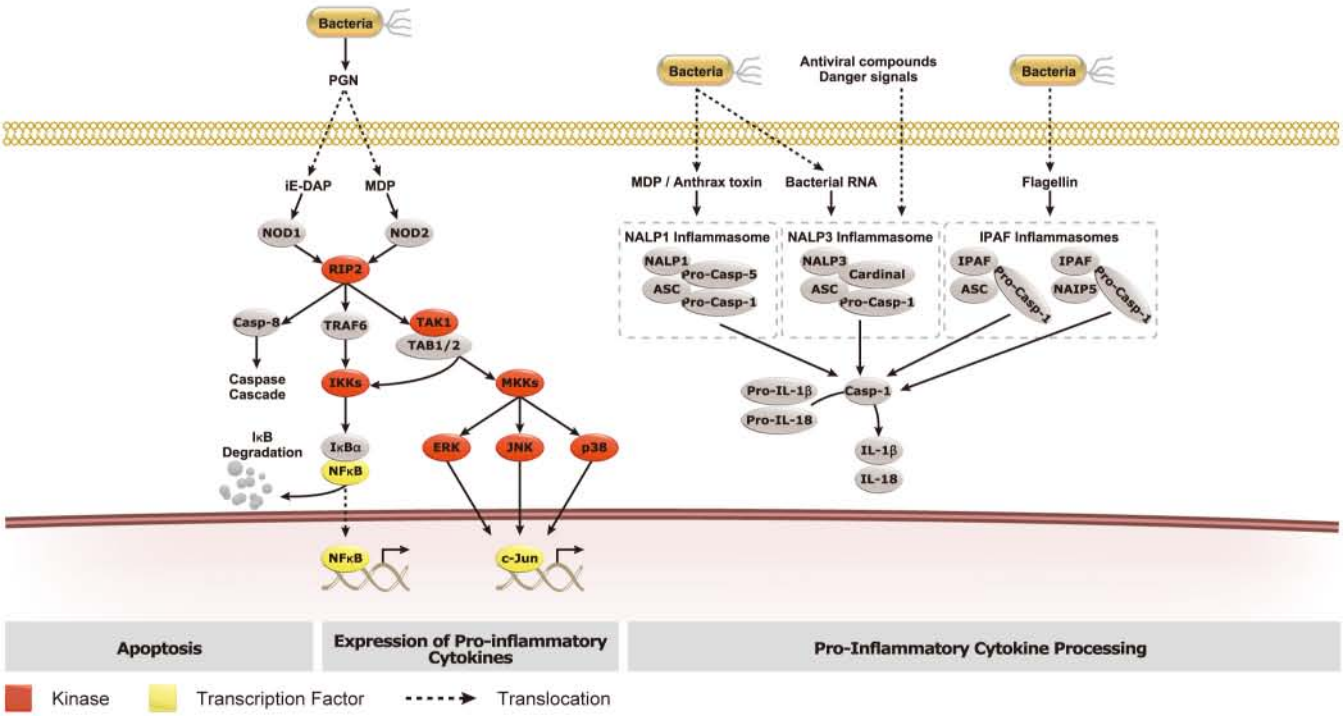
MyD88 antibody (GTX112987):
IHC-P analysis of lung cancer.



TRAM / TICAM2 antibody (GTX85636):
IHC-P analysis of human brain.

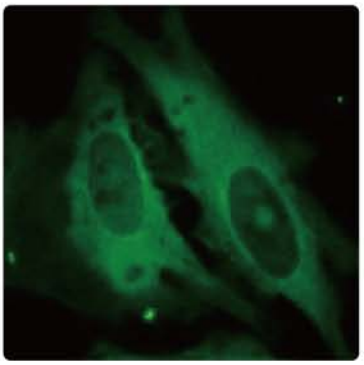
NOD-like Receptors (NLRs)

NOD-like receptors (NLRs) are a family of intracellular proteins that sense microbial pathogens and endogenous danger signals and then induce immune responses. Several NLRs, including NOD1, NOD2, NALP3, IPAF and NAIP, are associated with responses to intracellular invasion. In addition, some NLRs organize signaling complexes such as Nod signalosomes and inflammasomes for inflammatory responses. Recent studies have described the linkage of NLR mutations with inflammatory disorders including asthma (NOD1), Crohn's disease (NOD2), familial cold urticaria and Muckle-Wells syndrome NALP3).



NODs

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX108811	NOD1 antibody	Rb pAb	Hu	ICC/IF, WB
GTX30694	NOD2 antibody	Rb pAb	Hu, Mk	WB
GTX30615	NOD2 antibody [2D9]	Ms mAb	Hu	IHC-F, IP, WB
GTX89233	NOD2 antibody	Gt pAb	Hu, Ms, Rat	ELISA, WB



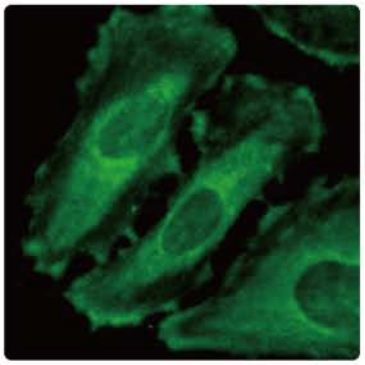
NOD1 antibody (GTX108811):
ICC/IF analysis of PFA-fixed HeLa cells.

Pathogen Recognition Receptors

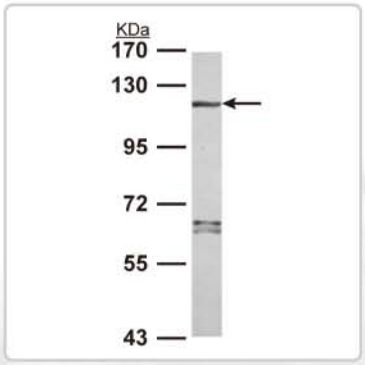
NALPs and IPAF

Citation

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX23683	NALP1 antibody	Rb pAb	Hu, Rat	ELISA, IP, WB
GTX16091	NALP1 antibody [Nalpy1-4]	Ms mAb	Hu	ICC/IF, IHC, IP, WB
GTX110886	NALP2 antibody	Rb pAb	Hu	ICC/IF, WB
GTX88068	NALP2 antibody	Gt pAb	Hu	ELISA, WB
GTX106313	NALP3 antibody	Rb pAb	Hu	WB
GTX17267	NALP3 antibody [nalpy3-b]	Ms mAb	Hu	IP, WB
GTX88190	NALP3 antibody	Gt pAb	Hu, Cow, Dog	ELISA
GTX85158	NALP5 antibody	Rb pAb	Hu, Ms, Rat	ELISA, WB
GTX85157	NALP6 antibody	Rb pAb	Hu	ELISA, WB
GTX120931	NALP7 antibody	Rb pAb	Hu	WB
GTX85156	NALP7 antibody	Rb pAb	Hu	ELISA, WB
GTX85155	NALP8 antibody	Rb pAb	Hu	ELISA, WB
GTX85159	NALP9 antibody	Rb pAb	Hu, Ms	ELISA, WB
GTX85154	NALP10 antibody	Rb pAb	Hu	ELISA, WB
GTX85153	NALP11 antibody	Rb pAb	Hu	ELISA, WB
GTX81551	NALP12 Antibody	Rb pAb	Hu, Ms	ELISA, WB
GTX85152	NALP14 antibody	Rb pAb	Hu, Ms, Rat	ELISA, WB
GTX70445	CLAN antibody	Rb pAb	Hu	ELISA, WB



NALP2 antibody (GTX110886):
ICC/IF analysis of methanol-fixed HeLa cells.



NALP7 antibody (GTX120931):
WB analysis of Jurkat cell lysate.

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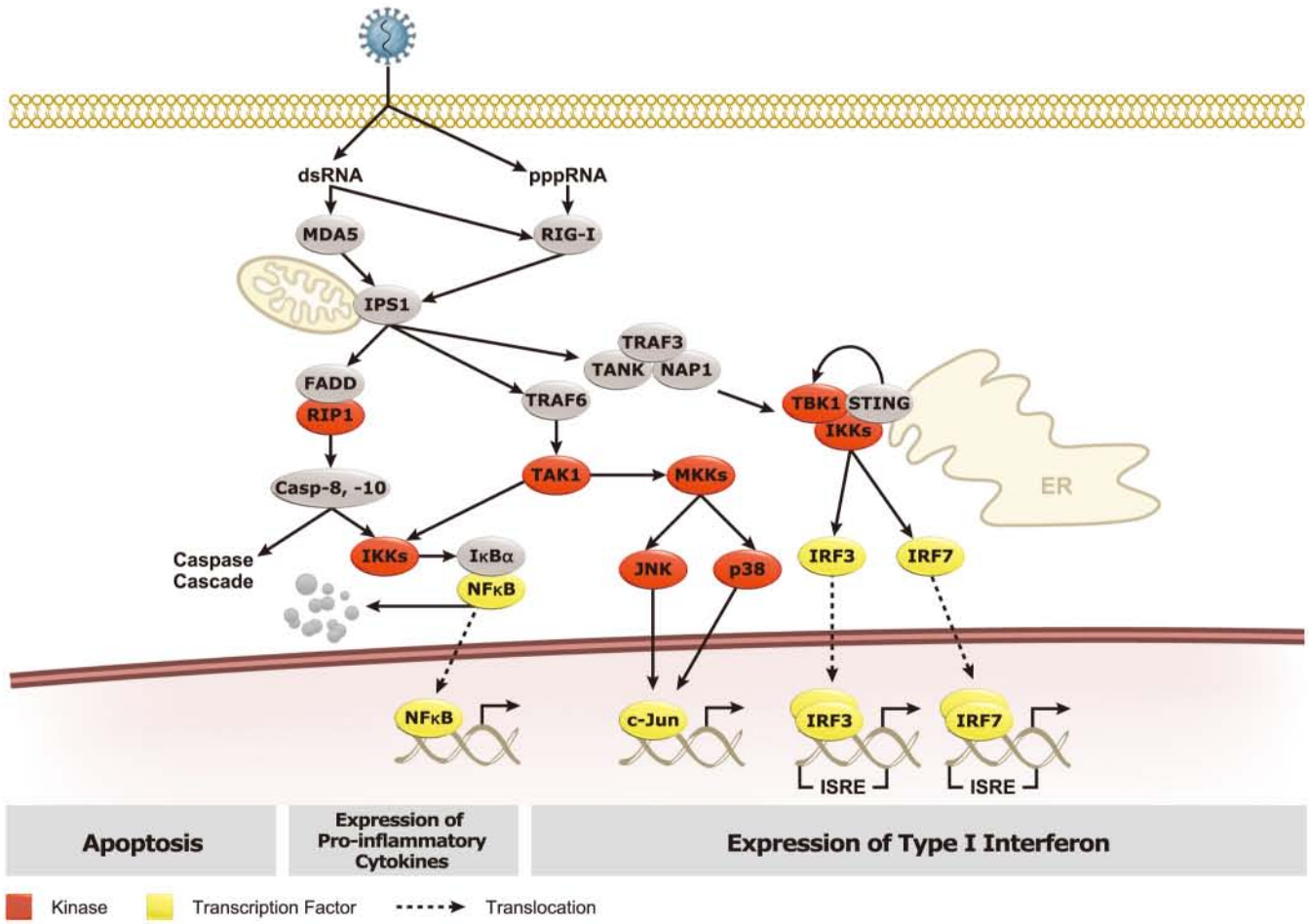
RIG-I-like Receptors (RLRs)

RIG-I-like receptors (RLRs), also known as RIG-I-like helicases (RLHs), are responsible for detecting viral pathogens and inducing innate immune responses. RLRs are composed of two dsRNA-recognition molecules RIG-I and MDA5 and the RIG-I/MDA5 negative regulator LGP2. In addition to RLRs, viral dsRNA is also detected by TLR3. Whether dsRNA is recognized by RLRs or TLR3 is cell-type dependent. RLRs are the major virus sensors in conventional dendritic cells, macrophages and fibroblasts, while TLR3 plays a more important role in plasmacyloid dendritic cells.



Pathogen Recognition Receptors

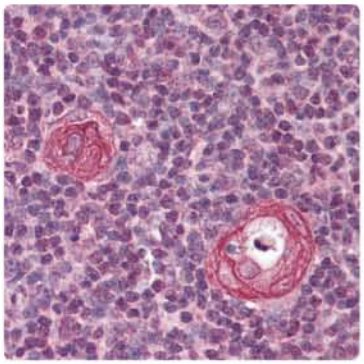
RLRs

Citation

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX88752	LGP2 antibody	Gt pAb	Hu	ELISA, WB
GTX103138	MDA5 antibody	Rb pAb	Hu	WB
GTX40395	MDA5 antibody	Rb pAb	Hu	WB, IHC
GTX24544	MDA5 antibody	Gt pAb	Hu	ELISA, IHC
GTX85488	RIG-1 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, WB
GTX39188	RIG-I antibody [SS1A]	Rat mAb	Ms	WB

IPS1 and Sting

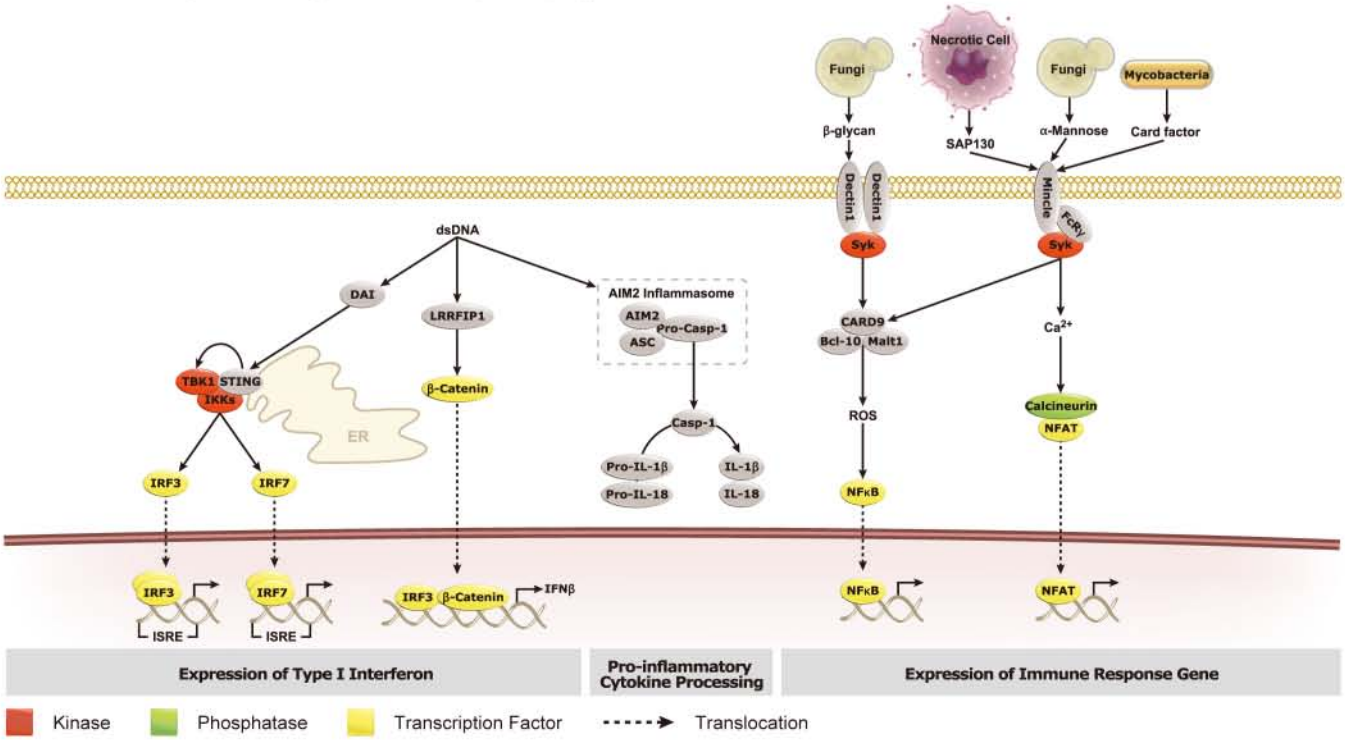
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX85480	IPS1 / VISA antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, WB
GTX85481	IPS1 / VISA antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, WB
GTX85266	Sting / MPYS antibody	Rb pAb	Hu, Ms	ELISA, ICC/IF, WB



IPS1 / VISA antibody (GTX85709):
IHC-P analysis of human thymus.

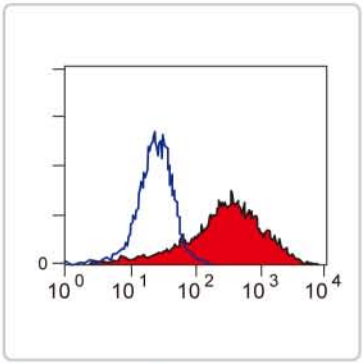
Other Sensors

In addition to TLRs, NLRs and RLRs, innate immune responses can also be induced through the detection of either cytosolic DNA or carbohydrates by either dsDNA sensors or C-type lectin receptors (CLRs), respectively. The dsDNA sensors are responsible for the recognition of cytosolic DNA from either PAMPs or damaged/dying cells. CLRs are involved in the recognition of carbohydrates from bacteria, viruses, fungi and other microbes.



CLPs and Syk

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX74430	DC-SIGN antibody	Rb pAb	Hu	WB
GTX84993	DC-SIGN antibody [8B6]	Ms mAb	Hu	ELISA, IHC, WB
GTX42261	DC-SIGN antibody [MR-1]	Ms mAb	Hu	FACS, ICC/IF, FuncS
GTX59720	Dectin-1 antibody	Rb pAb	Hu, Ms, Rat	WB
GTX41460	Dectin-1 antibody [GE2]	Ms mAb	Hu	FACS
GTX41471	Dectin-1 antibody [2A11]	Rat mAb	Ms	FACS, IHC-Fr, IP, FuncS
GTX46691	Dectin-2 antibody	Rb pAb	Hu	WB
GTX41456	Dectin-2 antibody [D2.11E4]	Rat mAb	Ms	IHC
GTX100748	Syk antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX107459	Syk antibody	Rb pAb	Hu	IHC-P, WB
GTX23113	Syk antibody [4D10.1]	Ms mAb	Hu	IHC-P, IP, WB
GTX15238	Syk antibody [SPM147]	Ms mAb	Hu	IHC-P, IP, WB



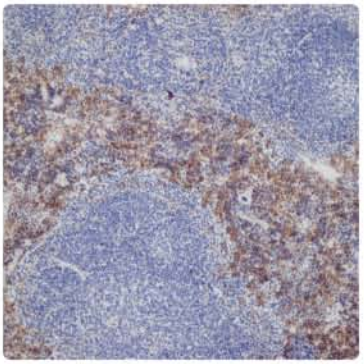
DC-SIGN antibody [MR-1] (GTX42261):
FACS analysis of DC-SIGN transfected K562 cells using GTX42261 (red).

Cytosolic DNA sensors

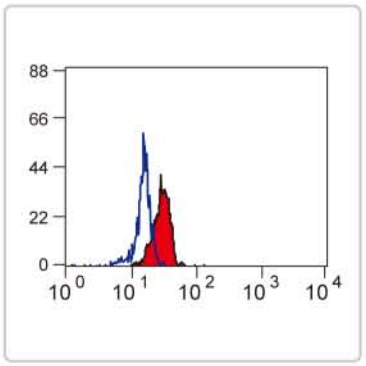
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX116487	AIM2 antibody	Rb pAb	Hu	WB
GTX88186	AIM2 antibody	Gt pAb	Hu	ELISA

PGRPs

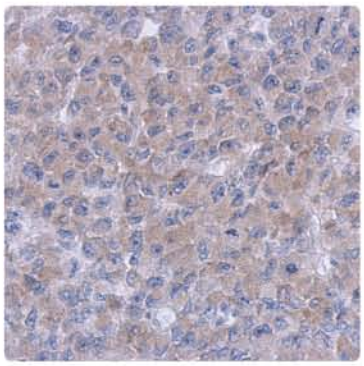
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX13903	PGRPS antibody [188C424]	Ms mAb	Hu	WB
GTX88753	PGRPS antibody	Gt pAb	Hu, Dog	ELISA, WB
GTX13681	PGRP1B antibody [186C426]	Ms mAb	Hu, Ms, Pig, Rat	FACS, ICC/IF, WB



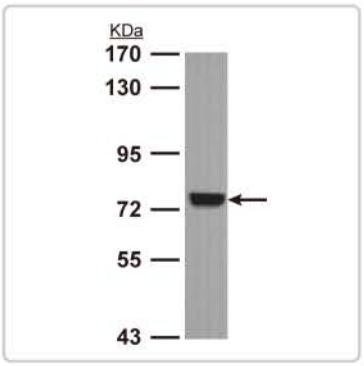
Dectin-2 antibody [D2.11E4] (GTX41456):
IHC analysis of mouse spleen tissue.



Dectin-1 antibody [GE2] (GTX41460):
FACS analysis of human peripheral blood monocytes using GTX41460 (red) or an isotype control (blue).



Syk antibody (GTX107459):
IHC-P analysis of H1299 xenograft.



Syk antibody (GTX100748):
WB analysis of A431 cell lysate.

Pathogen Recognition Receptors

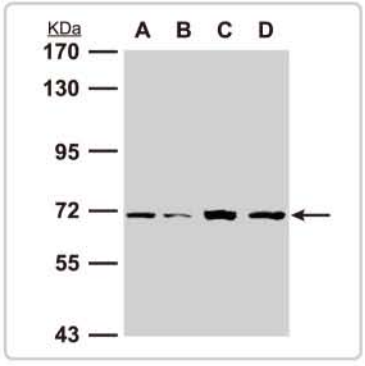
Signal Transducers of PRRs

IRAKs and regulators

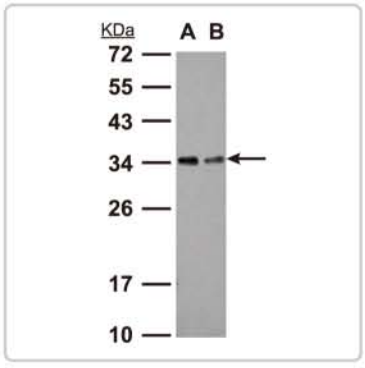
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX111421	IRAK antibody	Rb pAb	Hu	WB
GTX20238	IRAK antibody	Rb pAb	Hu	IP, WB
GTX102518	IRAK2 antibody	Rb pAb	Hu	ICC/IF, WB
GTX74356	IRAK2 antibody	Rb pAb	Hu	WB
GTX104227	IRAK3 antibody	Rb pAb	Hu, Ms	ICC/IF, WB
GTX88632	IRAK3 antibody	Gt pAb	Ms, Rat	ELISA, WB
GTX113323	IRAK4 antibody	Rb pAb	Hu	IHC-P, WB
GTX89550	IRAK4 antibody	Gt pAb	Hu, Ms	ELISA, WB
GTX116566	Tollip antibody	Rb pAb	Hu	IHC-P, WB
GTX16089	Tollip antibody [Kimmy-2]	Ms mAb	Hu, Ms	IP, WB

IRFs

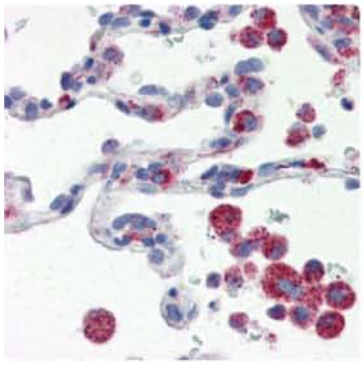
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX37648	IRF1 antibody	Rb pAb	Hu, Ms, Rat	ELISA, WB
GTX63491	IRF2 antibody [EPR4644(2)]	Rb mAb	Hu, Ms	IHC, WB
GTX89898	IRF2 antibody	Gt pAb	Hu, Ms, Cow, Dog, Rat	ELISA, WB
GTX61908	IRF3 antibody [EPR2418Y]	Rb mAb	Hu, Ms	FACS, IHC-P, WB
GTX50058	IRF3 antibody [3F10]	Ms mAb	Hu	ELISA, ICC/IF, IP, WB
GTX80991	IRF4 antibody	Rb pAb	Hu	ELISA, FACS, WB
GTX113477	IRF5 antibody	Rb pAb	Hu	WB
GTX40748	IRF5 antibody [B1251M]	Ms mAb	Hu	ELISA, WB, IP
GTX89902	IRF5 antibody	Gt pAb	Hu, Ms, Cow, Rat	ELISA, IP, WB
GTX104862	IRF6 antibody	Rb pAb	Hu, Ms	ICC/IF, WB
GTX10925	IRF6 antibody	Gt pAb	Hu, Ms	ELISA, IHC, WB
GTX85489	IRF7 antibody	Rb pAb	Hu	ELISA, IHC, WB
GTX85490	IRF7 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC, WB
GTX85864	IRF7 antibody [3D9]	Ms mAb	Hu	ELISA, IHC-P, WB
GTX82481	IRF8 antibody	Rb pAb	Hu	ELISA, FACS, IHC, WB
GTX77895	IRF8 antibody	Rb pAb	Hu, Ms, Dog, Fsh, Rat, Zfsh	IHC-P, WB
GTX89895	IRF8 antibody	Gt pAb	Hu, Ms, Cow, Rat	ELISA, WB
GTX115401	IRF9 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX77807	IRF9 antibody	Rb pAb	Hu	WB



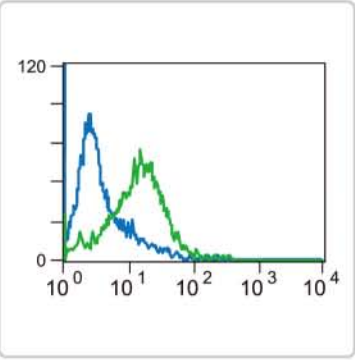
IRAK2 antibody (GTX102518):
WB analysis of (A) H1299, (B) HepG2, (C) Molt-4 and (D) Raji cell lysates.



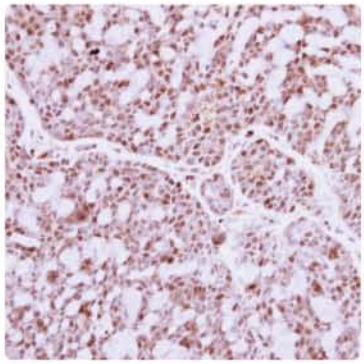
Tollip antibody (GTX116566):
WB analysis of (A) NT2D1 and (B) IMR32 cell lysates.



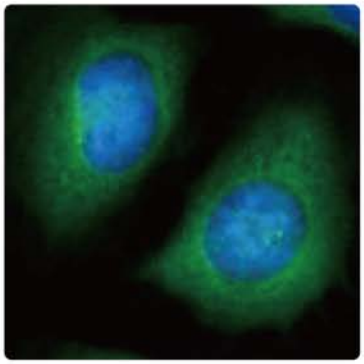
IRF7 antibody (GTX85864):
IHC-P analysis of human lung tissue.



IRF8 antibody (GTX82481):
FACS analysis of Jurkat cells using GTX82481 (green) or an isotype control (blue).



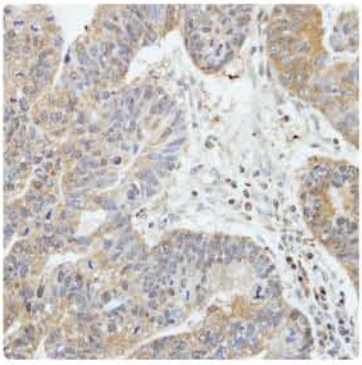
IRF9 antibody (GTX115401):
IHC-P analysis of breast cancer.



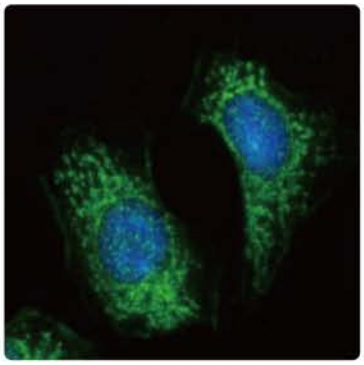
RIP1 antibody (GTX111074):
ICC/IF analysis of methanol-fixed HeLa cells (co-stained with Hoechst 33342).

RIPs, TANK and TRAFs

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX111074	RIP antibody	Rb pAb	Hu	ICC/IF, WB
GTX10427	RIP antibody	Rb pAb	Hu, Ms	WB
GTX59864	RIP antibody	Rb pAb	Hu, Ms, Rat	IHC, IP
GTX105939	RIP2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX113045	RIP2 antibody	Rb pAb	Hu	IHC-P, WB
GTX17328	RIP2 antibody [Nick-1]	Rat mAb	Hu	WB
GTX39039	TANK antibody	Rb pAb	Hu	WB
GTX59886	TANK antibody	Rb pAb	Hu, Ms, Rat	IHC, IP
GTX102372	TRAF1 antibody	Rb pAb	Hu	IHC-P, WB
GTX89381	TRAF1 antibod	Gt pAb	Hu, Ms	ELISA, WB
GTX111138	TRAF2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX89120	TRAF2 antibody	Gt pAb	Hu, Ms, Dog, Rat	ELISA, WB
GTX110152	TRAF3 antibody	Rb pAb	Hu	ICC/IF, WB
GTX59903	TRAF3 antibody	Rb pAb	Hu, Ms, Rat	IHC, IP
GTX62653	TRAF4 antibody [EPR1729]	Rb mAb	Hu, Ms	FACS, ICC/IF, IHC-M, WB
GTX77728	TRAF4 antibody	Rb pAb	Hu	WB
GTX102415	TRAF5 antibody	Rb pAb	Hu	ICC/IF, WB
GTX12123	TRAF5 antibody [55A219]	Ms mAb	Hu	WB
GTX113029	TRAF6 antibody	Rb pAb	Hu, Ms	ICC/IF, IHC-P, WB
GTX46900	TRAF7 antibody	Rb pAb	Hu, Rat	WB



RIP2 antibody (GTX105939):
IHC-P analysis of gastric carcinoma.



TRAF5 antibody (GTX102415):
ICC/IF analysis of methanol-fixed HeLa cells (co-stained with Hoechst 33342).

Inflammation

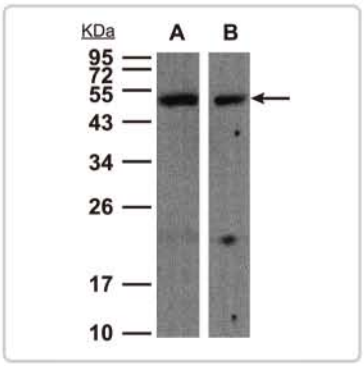
Inflammation is a protective response to tissue injury by the immune system and includes both acute and chronic responses. Both acute and chronic inflammation are mainly mediated by the activation of large caspase-1-activating complexes called inflammasomes, which trigger the maturation and release of inflammatory cytokines. Acute inflammation is an important part of the immune response against foreign invaders, while chronic inflammation usually leads to the inappropriate destruction of tissues in autoimmune disorders, cardiovascular diseases and neurodegenerative disorders.

Inflammasome

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX102474	TMS1 antibody	Rb pAb	Hu	WB
GTX22236	TMS1 antibody	Gt pAb	Hu	ELISA, IHC-P, WB
GTX102395	CARD8 antibody	Rb pAb	Hu	ICC/IF, WB
GTX59907	CARD8 antibody	Rb pAb	Hu, Ms, Rat	WB

AIM2 see page 15

NALP1 and **NALP3** see page 12

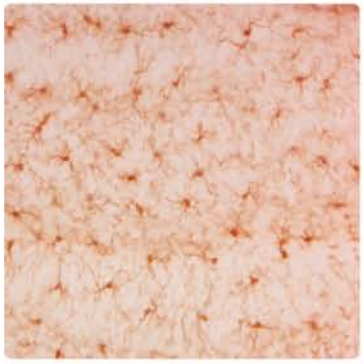


CARD8 / Cardinal antibody (GTX102395):
WB analysis of (A) A431 and (B) HepG2 cell lysates.

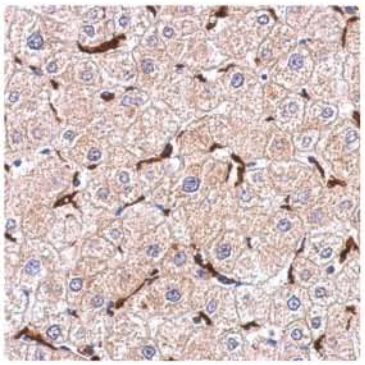
Inflammation markers

Citation

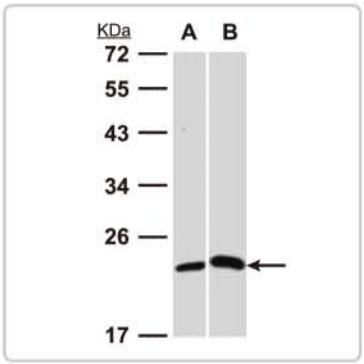
Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX100042	AIF1 / Iba1 antibody	Rb pAb	Hu, Ms	IHC-P, WB
GTX101495	AIF1 / Iba1 antibody	Rb pAb	Hu, Ms	FACS, ICC/IF, WB
GTX89048	AIF1 / Iba1 (isoform 1 & 3) antibody	Gt pAb	Hu, Dog	ELISA, IHC, WB
GTX81862	α1-Acid Glycoprotein antibody	Rb pAb	Hu	ELISA, WB
GTX13332	α1-Acid Glycoprotein antibody [AGP-47]	Ms mAb	Hu, Bb	Dot, I-ELISA, WB
GTX28553	Calcitonin antibody	Rb pAb	Hu, Ms, Rat	ELISA, ICC/IF, IP, WB
GTX14818	Calcitonin antibody [13f2]	Ms mAb	Hu	EIA, ELISA, WB
GTX10987	Calcitonin / CGRP antibody [4901]	Ms mAb	Hu, Rat	ELISA, ICC/IF, Neut, RIA
GTX10987	Calcitonin / CGRP [4901] antibody	Ms mAb	Hu, Rat	ELISA, ICC/IF, Neut, RIA
GTX101262	C Reactive Protein antibody	Rb pAb	Hu	WB
GTX72817	C Reactive Protein antibody	Rb pAb	Hu	ELISA, IP, RIA
C GTX10026	C Reactive Protein antibody [C1]	Ms mAb	Hu	Apuri, IHC, WB
GTX13426	C Reactive Protein antibody [CRP-8]	Ms mAb	Hu	Dot, ELISA, WB
GTX79757	Fibrinogen antibody	Rb pAb	Ms, Rat	ELISA, IHC-F, IHC-P, WB
GTX10065	Fibrinogen antibody [15H12]	Ms mAb	Hu	ELISA, IA, WB
C GTX100450	ICAM1 antibody	Rb pAb	Hu	IHC-P, WB
C GTX78387	ICAM1 antibody [1H4]	Ms mAb	Hu	FACS, ICC/IF, IHC-Fr, IHC-P, WB
C GTX75218	ICAM1 antibody [15.2]	Ms mAb	Hu	FACS, IHC-Fr, IHC-P, IP
C GTX74944	ICAM1 antibody [3E2B]	Hm mAb	Ms	IHC-Fr, ELISA, FACS, FuncS



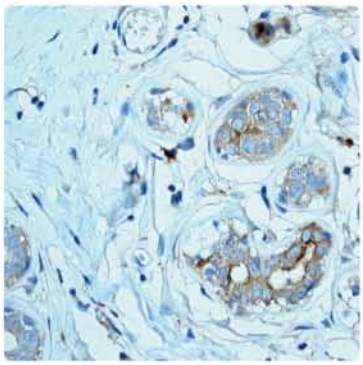
Iba1 antibody (GTX100042):
IHC-P analysis of mouse brain tissue.



Iba1 antibody (GTX100042):
IHC-P analysis of hepatoma tissue.



C Reactive Protein antibody (GTX101262):
WB analysis of (A) H1299 and (B) Molt-4 cell lysates.

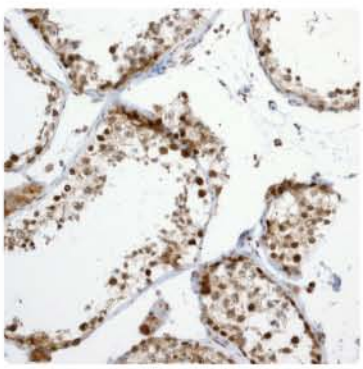


Lactoferrin antibody [EPR4338] (GTX62696):
IHC-P analysis of human breast tissue.

Inflammation markers

Citation

Cat. No.	Product	Host & Clonality	Reactivity	Application
GTX62696	Lactoferrin antibody [EPR4338]	Rb mAb	Hu	IHC-P, IP, WB
GTX81085	Lactoferrin antibody	Rb pAb	Hu, Ms	ELISA, WB
GTX37308	Lactoferrin antibody	Ms mAb	Hu	ELISA, ICC/IF, IHC-P, WB
GTX105154	LBP antibody	Rb pAb	Hu	IHC-P, WB
GTX112815	β2-Microglobulin antibody	Ms mAb	Hu	IHC-P, WB
GTX20759	β2-Microglobulin antibody [B2M-01]	Ms mAb	Hu	ELISA, FACS, IP, RIA, WB
GTX78407	β2-Microglobulin antibody [B2M-02]	Ms mAb	Hu	ELISA, FACS, WB
GTX100458	MMP9 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX11225	MMP9 antibody [6-6B]	Ms mAb	Hu	ICC/IF, IP, WB
GTX23159	MMP9 antibody [GE-213]	Ms mAb	Hu	IHC-Fr, IP, WB
GTX30730	Nitrotyrosine [39B6] antibody	Ms mAb	Hu, Ms, Dog, Rat	IHC, IP, WB
GTX14816	Procalcitonin antibody [6F10]	Ms mAb	Hu	EIA, ELISA, EMSA, WB
GTX14817	Procalcitonin antibody [44d9]	Ms mAb	Hu	EIA, ELISA, WB
GTX62552	Tenascin C antibody [EPR4219]	Rb mAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB
GTX26393	Tenascin C antibody [BC-24]	Ms mAb	Hu	Dot, ELISA, ICC/IF, IHC-Fr, IHC-P, RIA, WB
GTX111701	Transglutaminase 2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX111702	Transglutaminase 2 antibody	Rb pAb	Hu	ICC/IF, IHC-P, WB
GTX22972	Transglutaminase 2 antibody	Rb pAb	Hu, Ms, Rat	ELISA, IHC-P, IP, WB



Tenascin C antibody [EPR4219] (GTX62552):
IHC-P analysis of human testis tissue.

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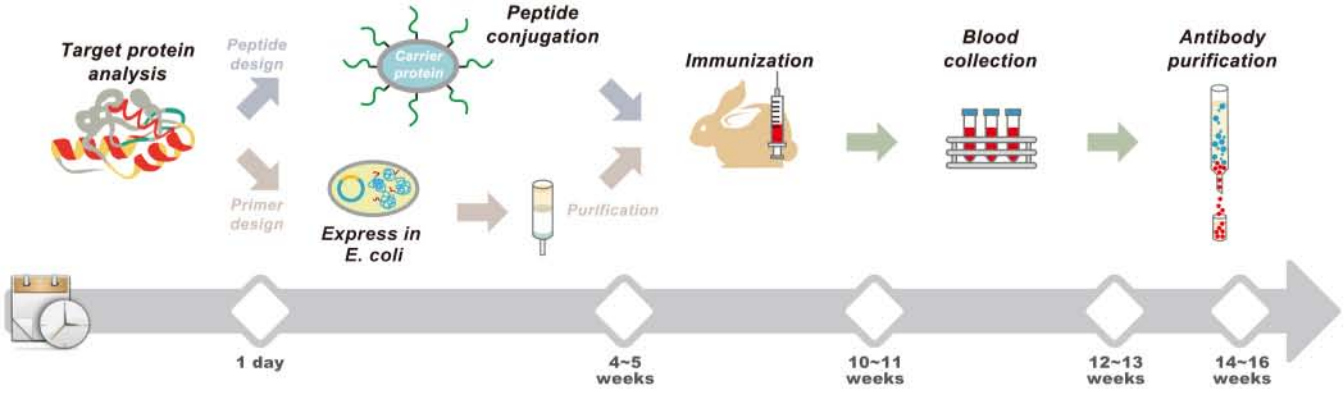
- Highly specific antigen affinity purification
- Online tracking system

Flow Chart



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