

TLR3 Monoclonal Antibody (40C1285)

Catalog Number MA1-25649

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Dog, Human, Mouse
Host/Isotope	Mouse / IgG1	<div><div>Tested Applications</div><div>Dilution *</div></div>	
Class	Monoclonal		
Type	Antibody		
Clone	40C1285		
Immunogen	A synthetic peptide corresponding to amino acids 55-70 (VLNLTHNQLRRLPAAN) of human TLR3.		
Conjugate	Unconjugated	Flow Cytometry (Flow)	2-4 µg / 10^6 cells
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:1,000
Concentration	1 mg/mL	Immunoprecipitation (IP)	2 µg for 10^6 cells
Purification	Protein G	Western Blot (WB)	1-3 µg/mL
Storage buffer	PBS with 0.05% BSA	Immunocytochemistry (ICC/IF)	1:20-1:1,000
Contains	0.05% sodium azide	<small>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</small>	
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA1-25649 detects TLR3 from human samples.

Background/Target Information

TLR3 (Toll-like receptor 3, CD283) is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from drosophila to humans and share structural and functional similarities. TLRs recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. TLR3 is most abundantly expressed in placenta and pancreas, and is restricted to the dendritic subpopulation of the leukocytes. TLR3 recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. Further, TLR3 may play a role in host defense against viruses, and the use of alternative polyadenylation sites to generate different length transcripts has been noted for the TLR3 gene. Like its counterparts in Drosophila, TLRs signal through adaptor molecules and could constitute an important and unrecognized component of innate immunity in humans. The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition. TLRs characterized so far activate the MyD88 /interleukin-1 receptor-associated kinase (IRAK) signaling pathway. TLR3 is the only human TLR which does not utilize MyD88 as an adaptor molecule instead utilizing TRIF in a signaling path which results in downstream activation of IRF-3 and NF-kB. TLR3 activation leads not only to Type I interferon induction but also to other inflammatory cytokines which result in DC maturation. TLR3 is known to recognize viral double-stranded (ds) RNA, a molecular pattern associated with viral infection. Recently it has been shown to recognize viruses such as Influenza A and West Nile Virus and can mediate entry of at least West Nile Virus.

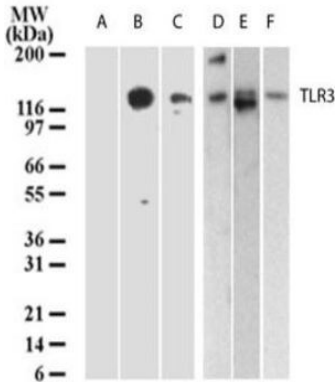
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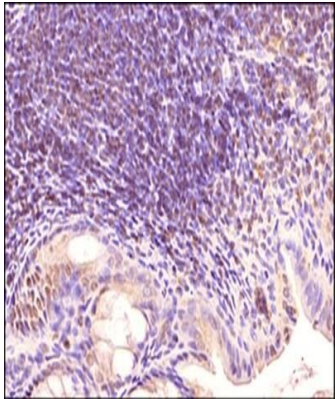
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Product Images For TLR3 Monoclonal Antibody (40C1285)



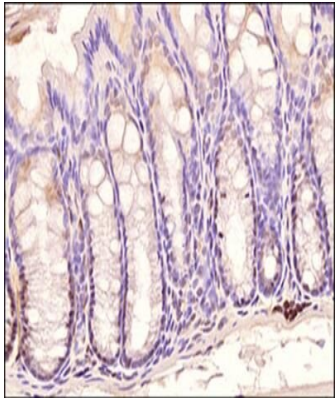
TLR3 Antibody (MA1-25649) in WB

Western Blot analysis of TLR3 was performed by loading (A) 293 cells, (B) 293 cells overexpressing human TLR3, (C) human intestine, (D) placenta, (E) heart and (F) ovary tissue lysates. Proteins were transferred to a membrane and probed with a TLR3 Monoclonal Antibody (40C1285) (Product # MA1-25649) at a dilution of 3 µg/mL.



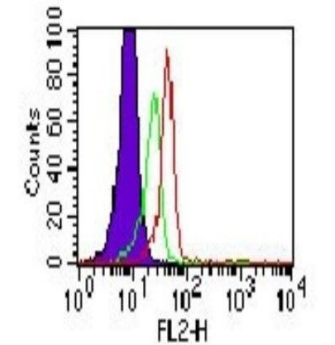
TLR3 Antibody (MA1-25649) in IHC (P)

Immunohistochemistry (Paraffin) analysis of TLR3 in mouse intestine tissue using TLR3 Monoclonal Antibody (40C1285) (Product # MA1-25649) at a dilution of 1:500.



TLR3 Antibody (MA1-25649) in IHC (P)

Immunohistochemistry (Paraffin) analysis of TLR3 in mouse colon tissue using TLR3 Monoclonal Antibody (40C1285) (Product # MA1-25649) at a dilution of 1:500.



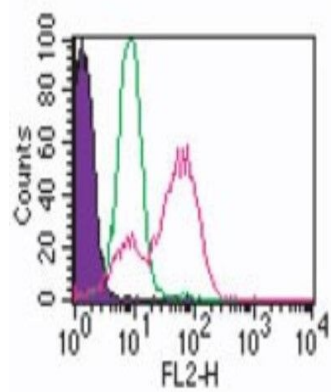
TLR3 Antibody (MA1-25649) in Flow

Flow Cytometry analysis of PLK4 was performed in human monocyte using a PLK4 Polyclonal Antibody (Product # PA1-31555) (Red) at a dilution of 0.5 µg/10⁶ cells. Green : isotype control. Shaded histogram : cells only.

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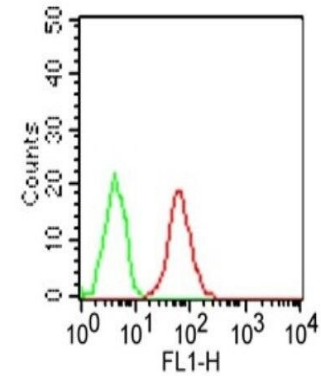
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TLR3 Antibody (MA1-25649) in Flow

Flow Cytometry analysis of SR-BI/SR-BII was performed in human monocyte using 0.5 µg of SR-BI/SR-BII Polyclonal Antibody (Product # PA1-32415) (Red). Green : isotype control. Shaded histogram : cells only.



TLR3 Antibody (MA1-25649) in Flow

Flow Cytometry analysis of IBA1 was performed in human B cells using IBA1 Polyclonal Antibody (Product # PA5-21274) (Red) at a dilution of 1 µg/10⁶ cells. Green : isotype control.

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