

# TLR3 Polyclonal Antibody

Catalog Number **PA5-20184**

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Polyclonal	Tested Applications	
Type	Antibody	Western Blot (WB)	Dilution * 0.5 µg/mL
Immunogen	A peptide corresponding to 15 amino acids near the amino terminus of human TLR3.	Immunocytochemistry (ICC/IF)	10 µg/mL
Conjugate	Unconjugated	* 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.	
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

## Product specific information

A suggested positive control is K562 cell lysate. PA5-20184 can be used with blocking peptide PEP-0314.

## 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.

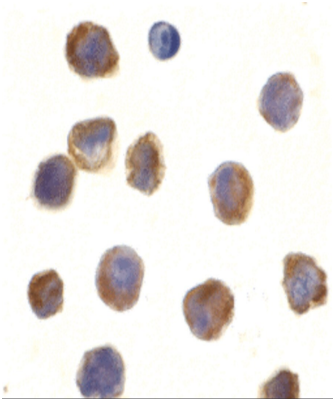
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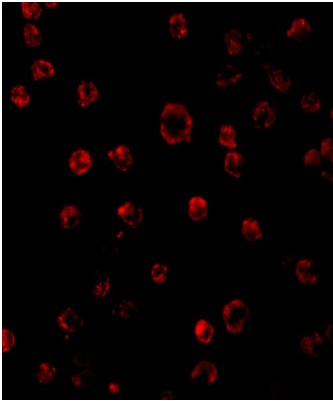
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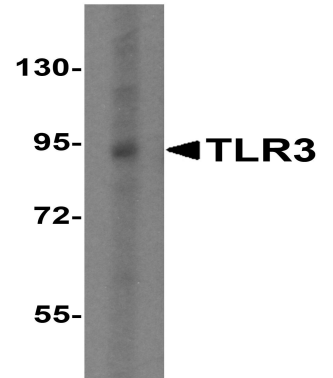
Product Images For TLR3 Polyclonal Antibody



**TLR3 Antibody (PA5-20184) in ICC/IF**  
Immunocytochemistry of TLR3 in K562 cells with TLR3 Polyclonal Antibody (Product # PA5-20184) at 10 µg/mL.



**TLR3 Antibody (PA5-20184) in ICC/IF**  
Immunofluorescence of TLR3 in K562 cells with TLR3 Polyclonal Antibody (Product # PA5-20184) at 2 µg/mL.



**TLR3 Antibody (PA5-20184) in WB**  
Western Blot analysis of TLR3 in EL4 cell lysate with TLR3 Polyclonal Antibody (Product # PA5-20184) at 0.5 µg/mL.

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