

CD180 Polyclonal Antibody

Catalog NumberPA5-20251

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (IHC)	2 µg/mL
Type	Antibody	Western Blot (WB)	0.5-1 µg/mL
Immunogen	a 11 amino acid peptide from near the amino terminus of human RP105.	* 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.	
Conjugate	Unconjugated		
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**

Despite its predicted molecular weight, RP105 often migrates at 95-105kDa in SDS-PAGE. A suggested positive control is human spleen tissue lysate. PA5-20251 can be used with blocking peptide PEP-0373.

**Background/Target Information**

CD180 (RP105, Bgp95, LY64) is a type I membrane glycoprotein of Toll-like receptor (TLR) family. CD180 cytoplasmic tail is short and unlike the TLRs, it lacks the TIR domain. CD180 expression is dependent on the coexpression of its helper molecule, MD-1, and mirrors that of TLR4 on antigen-presenting cells. CD180 regulates recognition of LPS and signaling in B cells, via interacting directly with the TLR4 signaling complex, inhibiting its ability to bind microbial ligands. Ligation of CD180 by monoclonal antibodies leads to B cell activation, upregulation of CD80/CD86, and increase in cell size. CD180 consists of extracellular leucine-rich repeats (LRR) and a short cytoplasmic tail. The extracellular LRR is part of the cell surface receptor complex, RP105/MD-1. Diseases associated with CD180 dysfunction include Kawasaki Disease in children and may play a role in rheumatic disease pathology.

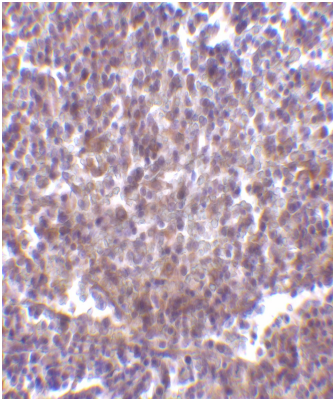
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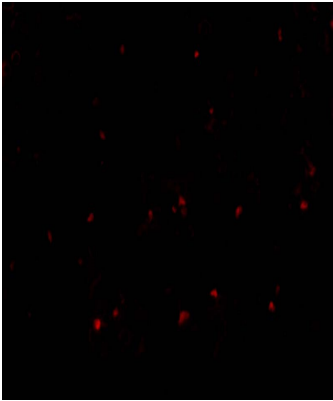
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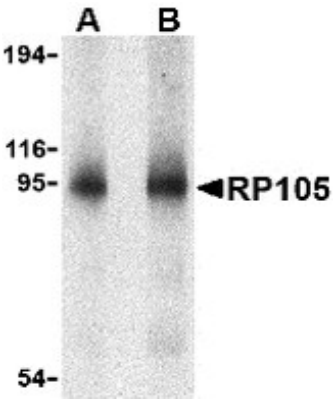
Product Images For CD180 Polyclonal Antibody



**CD180 Antibody (PA5-20251) in IHC**  
Immunohistochemistry of RP105 in human spleen tissue with CD180 Polyclonal Antibody (Product # PA5-20251) at 2 µg/mL.



**CD180 Antibody (PA5-20251) in IHC**  
Immunofluorescence of RP105 in human spleen tissue with CD180 Polyclonal Antibody (Product # PA5-20251) at 20 µg/mL.



**CD180 Antibody (PA5-20251) in WB**  
Western Blot analysis of RP105 in human spleen tissue lysate with CD180 Polyclonal Antibody (Product # PA5-20251) at (A) 0.5 and (B) 1 µg/mL.

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