

# CD180 Monoclonal Antibody (MHR73), Biotin

Catalog NumberMA1-34128

Product data sheet

Details		Species Reactivity	
Size	250 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	Dilution *
Class	Monoclonal		
Type	Antibody		
Clone	MHR73	Flow Cytometry (Flow)	Assay-dependent
Immunogen	Unfortunately, this information is considered to be commercially sensitive	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
		* 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	Biotin		
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	purified		
Storage buffer	PBS with 0.1% BSA		
Contains	0.02% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

## Product specific information

MA1-34128 detects RP105 from human samples.

## 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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