

CD36 Monoclonal Antibody (SMØ)

Catalog NumberMA5-16941

Product data sheet

Details		Species Reactivity	
Size	1 mg	Species reactivity	Human
Host/Isotope	Mouse / IgM	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	1:25-1:50
Type	Antibody	Functional Assay (FN)	Assay-dependent
Clone	SMØ	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Immunogen	Human tonsil cells and peripheral blood mononuclear cells.	* 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	Ammonium sulfate precipitation		
Storage buffer	PBS		
Contains	no preservative		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL.

Background/Target Information

CD36, also known as scavenger receptor class B member 3, is a protein that is expressed on the surface of various cell types, including macrophages, platelets, and adipocytes. It plays a role in lipid metabolism, inflammation, and atherosclerosis, and is involved in the recognition and uptake of various ligands such as oxidized low-density lipoproteins, long-chain fatty acids, and apoptotic cells. CD36 is also implicated in the pathogenesis of malaria. The protein encoded by this gene serves as a receptor for thrombospondin in platelets and various cell lines, and is the fourth major glycoprotein of the platelet surface. It binds to collagen, thrombospondin, anionic phospholipids, and oxidized LDL, and directly mediates cytoadherence of Plasmodium falciparum parasitized erythrocytes. Mutations in this gene cause platelet glycoprotein deficiency. Multiple alternatively spliced transcript variants have been found for this gene. Diseases associated with CD36 include Platelet Glycoprotein IV Deficiency and Coronary Heart Disease 7.

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