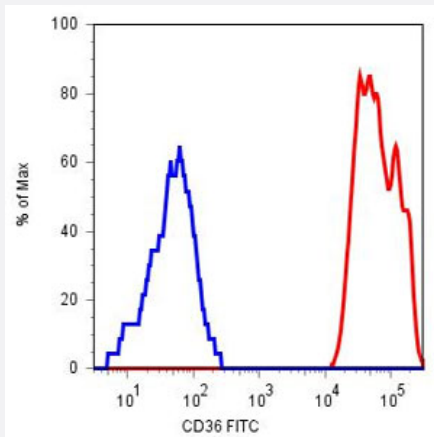


CD36 monoclonal antibody, clone TR9 (FITC)

Catalog # MAB4415 Size 100 Reactions

Applications



Flow Cytometry

Surface staining of human platelets with CD36 monoclonal antibody, clone TR9 (FITC) (Cat # MAB4415).

Specification

Product Description	Mouse monoclonal antibody raised against native CD36.
Immunogen	Native purified CD36 from human platelets.
Host	Mouse
Theoretical MW (kDa)	85
Reactivity	Human
Specificity	This antibody reacts with CD36 (GP1Ib), a 85 KDa integral membrane glycoprotein expressed on platelets, macrophages, endothelial cells, early erythroid cells and megakaryocytes. This antibody TR9 cross-blocks binding of FITC-labeled standard antibody OKM5. Anti-CD36 antibodies inhibit adhesive functions (e.g. adherence of infected erythrocytes to target cells).
Form	Liquid
Conjugation	FITC

Isotype	IgG1
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10 ⁶ cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

● Flow Cytometry

Surface staining of human platelets with CD36 monoclonal antibody, clone TR9 (FITC) (Cat # MAB4415).

Gene Info — CD36

Entrez GeneID	948
Gene Name	CD36
Gene Alias	CHDS7, FAT, GP3B, GP4, GPIV, PASIV, SCARB3
Gene Description	CD36 molecule (thrombospondin receptor)
Omim ID	173510 248310 608404 610938 611162
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the fourth major glycoprotein of the platelet surface and serve as a receptor for thrombospondin in platelets and various cell lines. Since thrombospondins are widely distributed proteins involved in a variety of adhesive processes, this protein may have important functions as a cell adhesion molecule. It binds to collagen, thrombospondin, anionic phospholipids and oxidized LDL. It directly mediates cytoadherence of Plasmodium falciparum parasitized erythrocytes and it binds long chain fatty acids and may function in the transport and/or as a regulator of fatty acid transport. Mutations in this gene cause platelet glycoprotein deficiency. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]
Other Designations	CD36 antigen CD36 antigen (collagen type I receptor, thrombospondin receptor) PAS-4 protein cluster determinant 36 fatty acid translocase glycoprotein IIb leukocyte differentiation antigen CD36 platelet glycoprotein IV scavenger receptor class B, member

Publication Reference

- [CD36 is differentially expressed on B cell subsets during development and in responses to antigen.](#)

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Journal of Immunology 2008 Jan; 180(1):230.

- [The gustatory pathway is involved in CD36-mediated orosensory perception of long-chain fatty acids in the mouse.](#)

Gaillard D, Laugerette F, Darcel N, El-Yassimi A, Passilly-Degrace P, Hichami A, Khan NA, Montmayeur JP, Besnard P.

FASEB Journal 2007 Dec; 22(5):1458.

- [Insulin-induced translocation of CD36 to the plasma membrane is reversible and shows similarity to that of GLUT4.](#)

van Oort MM, van Doorn JM, Bonen A, Glatz JF, van der Horst DJ, Rodenburg KW, Luiken JJ.

Biochimica et Biophysica Acta 2007 Dec; 1781(1-2):61.

Pathway

- [Adipocytokine signaling pathway](#)
- [ECM-receptor interaction](#)
- [Hematopoietic cell lineage](#)
- [PPAR signaling pathway](#)

Disease

- [Anemia](#)
- [Angina Pectoris](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)

- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis](#)
- [Hypertension](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Macular Degeneration](#)
- [Malaria](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Obesity](#)
- [Osteoarthritis](#)
- [Perception](#)
- [Taste](#)