

Mouse anti-Human CD36 Monoclonal Antibody | anti-CD36 antibody

Anti-Hu CD36 Biotin

CATALOG # AAA129136	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD36; Monoclonal Antibody; Anti-Hu CD36 Biotin; GPIIb; GPIV; PAS-4; FAT; Thrombospondin receptor; PASIV; CD36 molecule; anti-CD36 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	TR9
Specificity	The antibody TR9 reacts with an extracellular epitope of CD36 (GPIIb), a 85kDa integral membrane glycoprotein expressed on platelets, macrophages, endothelial cells, early erythroid cells and megakaryocytes. The antibody TR9 cross-blocks binding of FITC-labeled standard antibody OKM5. Anti-CD36 antibodies inhibit adhesive Functional Application (FUNC)tions (e.g. adherence of infected erythrocytes to target cells).
Purity/Purification	The purified antibody is conjugated with biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Form/Format	Phosphate buffered saline (PBS) solution with 15mM sodium azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD36 antibody	FCM/FACS (Flow Cytometry)
Conjugation	Biotin
Immunogen	Platelets
Preparation and Storage	Store at 2-8 degree C. Do not freeze. Do not use after expiration date stamped on the label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD36 antibody	CD36 (fatty acid translocase, FAT) is an 88kDa ditopic glycosylated protein that belongs to the class B family of scavenger receptors. CD36 is expressed by most resting marginal zone B cells but not by follicular and B1 B cells, and it is rapidly induced on Follicular B cells in vitro upon TLR and CD40 stimulation. CD36 does not affect the development of B cells, but modulates both primary and secondary antibody response. Similarly to glucose transporter GLUT4, CD36 is translocated from intracellular pools to the plasma membrane following cell stimulation by insulin. In mouse, CD36 is responsible for gustatory perception of long-chain fatty acids.
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References	*Zamora C, Cantó E, Nieto JC, Ortiz MA, Diaz-Torné C, Diaz-Lopez C, Llobet JM, Juarez C, Vidal S: Functional Application (FUNC) tional consequences of platelet binding to T lymphocytes in inflammation. J Leukoc Biol. 2013 Sep;94(3):521-9., URL: https://www.ncbi.nlm.nih.gov/pubmed/23801652,*Bertrand G, Renac V, Lefaix MC, Nivet C, Trudel E, Richard L: Neonatal Intracranial Hemorrhage with a Dramatic Outcome Due to Maternal Anti CD36 Antibodies. Reports 2019, 2(1), 7; doi:10.3390/reports2010007, URL: https://www.mdpi.com/2571-841X/2/1/7,*Berre S, Gaudin R, Cunha de Alencar B, Desdouits M, Chabaud M, Naffakh N, Rabaza-Gairi M, Gobert FX, Jouve M, Benaroch P: CD36-specific antibodies block release of HIV-1 from infected primary macrophages and its transmission to T cells. J Exp Med. 2013 Nov 18;210(12):2523-38., URL: https://www.ncbi.nlm.nih.gov/pubmed/24145510 *Gaillard D, Laugerette F, Darcel N, El-Yassimi A, Passilly-Degrace P, Hichami A, Akhtar Khan N, Montmayeur JP, Besnard P: The gustatory pathway is involved in CD36-mediated orosensory perception of long-chain fatty acids in the mouse. FASEB J. 2007 Dec 27, URL: https://www.ncbi.nlm.nih.gov/pubmed/18162488ordin,*van Oort MM, van Doorn JM, Bonen A, Glatz JF, van der Horst DJ, Rodenburg KW, Luiken JJ: Insulin-induced translocation of CD36 to the plasma membrane is reversible and shows similarity to that of GLUT4. Biochim Biophys Acta. 2007 Dec 15, URL: https://www.ncbi.nlm.nih.gov/pubmed/18167317ordin,*Won WJ, Bachmann MF, Kearney JF: CD36 Is Differentially Expressed on B Cell Subsets during Development and in Responses to Antigen. J Immunol. 2008 Jan 1;180(1):230-7., URL: https://www.ncbi.nlm.nih.gov/pubmed/18097024ordin
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115982
NCBI GeneID	948
UniProt Accession #	P16671; Q13966; Q16093; Q8TCV7; Q9BPZ8; Q9BQC2; Q9BZM8; Q9BZN3; D9IX66; D9IX67; D9IX68; D9IX69
Molecular Weight	472
NCBI Official Full Name	Platelet glycoprotein 4
NCBI Official Synonym Full Names	CD36 molecule (thrombospondin receptor)
NCBI Official Symbol	CD36
NCBI Official Synonym Symbols	FAT; GP4; GP3B; GPIV; CHDS7; PASIV; SCARB3; BDPLT10
NCBI Protein Information	platelet glycoprotein 4; GPIIIB; PAS IV; PAS-4 protein; glycoprotein IIIb; cluster determinant 36; fatty acid translocase; platelet glycoprotein IV; scavenger receptor class B, member 3; leukocyte differentiation antigen CD36; CD36 antigen (collagen type
UniProt Protein Name	Platelet glycoprotein 4
UniProt Gene Name	CD36
UniProt Synonym Gene Names	GP3B; GP4; FAT; GPIIIB; GPIV
UniProt Entry Name	CD36_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.