



Anti-CD36 monoclonal antibody, clone MF3 [R-PE] (CABT-45996RM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rat anti Mouse CD36 antibody, clone MF3 recognizes mouse CD36, an 85kD transmembrane glycoprotein which is primarily expressed on platelets, monocytes/macrophages, smooth muscle and endothelial cells. The CD36 molecule is type B scavenger receptor, which binds to multiple ligands including thrombospondin, anionic phospholipids, oxidized low density lipoproteins and long chain fatty acids. CD36 has diverse functions and is reported to play a role in innate immunity, platelet adhesion/aggregation and long chain fatty acid transport. The CD36 molecule also directly mediates cytoadhesion of erythrocytes infected with Plasmodium falciparum, and may be involved in the development of atherosclerotic lesions and the formation of foam cells. Rat anti Mouse CD36 antibody, clone MF3 has been shown to inhibit IL-4 induced thioglycollate- elicited peritoneal macrophage fusion and significantly block IL-4/GM-CSF-induced bone-marrow derived macrophage fusion. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Specificity	CD36
Immunogen	IL-4 treated murine thioglycollate-elicited peritoneal macrophages.
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Mouse
Clone	MF3
Conjugate	PE
Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised

Size	100 tests
Preservative	0.09% Sodium Azide
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Cd36 CD36 antigen [Mus musculus (house mouse)]
Official Symbol	CD36
Synonyms	CD36; CD36 antigen; FAT; GPIV; Scarb3; platelet glycoprotein 4; PAS-4; GPIIIB; PAS IV; glycoprotein IIIb; fatty acid translocase; platelet glycoprotein IV;
Entrez Gene ID	12491
Protein Refseq	NP_001153027
UniProt ID	Q08857
Chromosome Location	5 A3; 5 8.11 cM
Pathway	AMPK signaling pathway; Activated TLR4 signalling; Adaptive Immune System; Adipocytokine signaling pathway; Antigen processing-Cross presentation; Binding and Uptake of Ligands by Scavenger Receptors; Class I MHC mediated antigen processing & presentation; Cross-presentation of particulate exogenous antigens (phagosomes);
Function	high-density lipoprotein particle binding; lipid binding; lipoprotein particle binding; lipoteichoic acid receptor activity; low-density lipoprotein particle binding; low-density lipoprotein receptor activity; oleic acid binding; protein binding; thrombospondin receptor activity; transforming growth factor beta binding;