



# Anti-CD36 monoclonal antibody, clone MF3 [FITC] (CABT-45992RM)

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 1x10<sup>6</sup> cells in 100ul.

<b>Specificity</b>	CD36
<b>Immunogen</b>	IL-4 treated murine thioglycollate-elicited peritoneal macrophages.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	MF3
<b>Conjugate</b>	FITC
<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

<b>Size</b>	100 µg
<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Cd36 CD36 antigen [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	CD36
<b>Synonyms</b>	CD36; CD36 antigen; FAT; GPIV; Scarb3; platelet glycoprotein 4; PAS-4; GPIIIB; PAS IV; glycoprotein IIIb; fatty acid translocase; platelet glycoprotein IV;
<b>Entrez Gene ID</b>	<a href="#">12491</a>
<b>Protein Refseq</b>	<a href="#">NP_001153027</a>
<b>UniProt ID</b>	Q08857
<b>Chromosome Location</b>	5 A3; 5 8.11 cM
<b>Pathway</b>	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);
<b>Function</b>	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;