OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM03058AC-N

CD36 Mouse Monoclonal Antibody [Clone ID: TR9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	TR9
Applications:	FC
Recommended Dilution:	Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Platelets
Specificity:	The antibody TR9 reacts with CD36 (GPIIIb), a 85 kDa 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.
Formulation:	Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent Label: APC State: Liquid purified Ig fraction Label: Conjugated with cross-linked Allophycocyanin under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use
Conjugation:	APC
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD36 molecule
Database Link:	Entrez Gene 948 Human P16671

View online »

Background: CD36 (fatty acid translocase, FAT) is an 88 kDa 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.

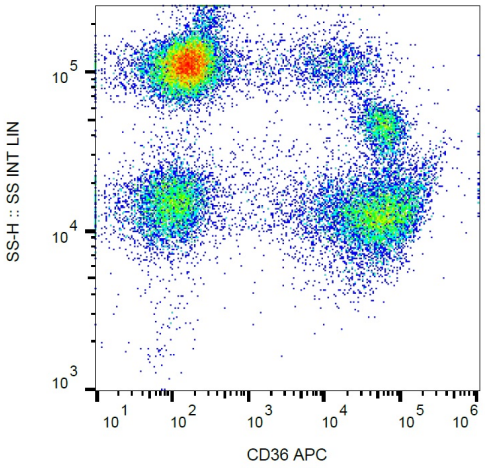
Synonyms: Glycoprotein IIIb, PAS IV, PAS-4, Thrombospondin receptor, GP3B, GP4

Note: Anti-CD36 antibodies inhibit adhesive functions (e.g. adherence of infected erythrocytes to target cells).

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, ECM-receptor interaction, Hematopoietic cell lineage, PPAR signaling pathway

Product images:



Surface staining of human peripheral blood with anti-CD36 (TR9) APC.