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Monoclonal Antibody to CD36 - FITC

Alternate names: Fatty acid translocase, GP3B, GP4, Glycoprotein IIIb, PAS IV, PAS-4, Platelet collagen receptor, Platelet glycoprotein 4, Platelet glycoprotein IV, Thrombospondin receptor

Catalog No.: AM03058FC-N

Quantity: 100 Tests

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.

Uniprot ID: P16671

NCBI: 9606

Host / Isotype: Mouse / IgG1

Clone: TR9

Immunogen: Platelets.

Format:
State: Liquid purified Ig fraction.
Buffer System: PBS containing 15 mM sodium azide as preservative and 0.2% (w/v) high-grade BSA (Protease free) as stabilizer.
Label: FITC – Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated and adjusted for direct use

Applications: Suitable for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension.
The content of a vial (2 ml) is sufficient for 100 tests.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

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.
This antibody cross-blocks binding of FITC-labeled standard antibody OKM5.
Anti-CD36 antibodies inhibit adhesive functions (e.g. adherence of infected erythrocytes to target cells).
Species: Human.
Other species not tested.

Storage:

Store the antibody in the dark at 2-8°C.
DO NOT FREEZE!
Avoid prolonged exposure to light.
Shelf life: One year from despatch.

General Readings:

1. Gaillard D, Laugerette F, Darcel N, El-Yassimi A, Passilly-Degrace P, Hichami A, et al. The gustatory pathway is involved in CD36-mediated orosensory perception of long-chain fatty acids in the mouse. FASEB J. 2008 May;22(5):1458-68. Epub 2007 Dec 27. PubMed PMID: 18162488.
2. van Oort MM, van Doorn JM, Bonen A, Glatz JF, van der Horst DJ, Rodenburg KW, et al. Insulin-induced translocation of CD36 to the plasma membrane is reversible and shows similarity to that of GLUT4. Biochim Biophys Acta. 2008 Jan-Feb;1781(1-2):61-71. doi: 10.1016/j.bbalip.2007.11.006. Epub 2007 Dec 15. PubMed PMID: 18167317.
3. 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. PubMed PMID: 18097024.

Pictures:

Surface staining of human platelets with anti-CD36 (TR9) FITC.