Datasheet for ABIN1027674

anti-CD36 antibody (FITC)

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Overview

Quantity:	100 tests
Target:	CD36
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD36 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	living human myeloid cells
Clone:	CB38
Isotype:	IgM kappa
Specificity:	The mouse monoclonal antibody CB38 (NL07) recognizes an extracellular epitope of CD36 (GPIIIb), a 85-113 kDa integral membrane glycoprotein expressed on platelets, macrophages, endothelial cells, early erythroid cells and megakaryocytes.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD36
Alternative Name:	CD36 (CD36 Products)
Background:	CD36 Molecule,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.,GPIIIb, GPIV, PAS-4, FAT, Thrombospondin receptor, PASIV
Gene ID:	948
UniProt:	P16671
Pathways:	TLR Signaling, Peptide Hormone Metabolism, Response to Growth Hormone Stimulus, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Regulation of Lipid Metabolism by PPARalpha, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Hepatitis C, Toll-Like Receptors Cascades, Lipid Metabolism, S100 Proteins

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.** Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

Moniuszko, Kowal, Rusak, Pietruczuk, Dabrowska, Bodzenta-Lukaszyk: "Monocyte CD163 and CD36 expression in human whole blood and isolated mononuclear cell samples: influence of different anticoagulants." in: **Clinical and vaccine immunology : CVI**, Vol. 13, Issue 6, pp. 704-7, (2006) (PubMed).

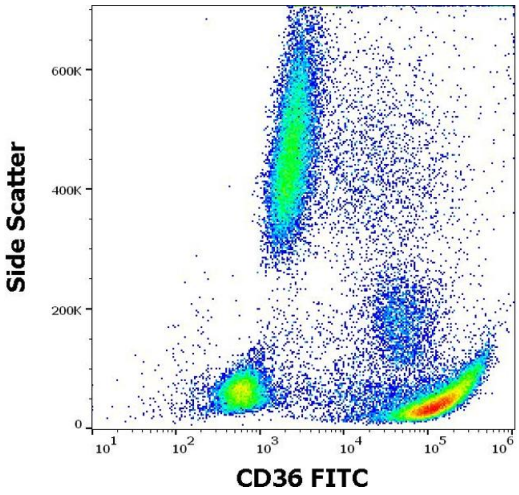
McKenna, Washington, Aquino, Picker, Kroft: "Immunophenotypic analysis of hematogones (B-lymphocyte precursors) in 662 consecutive bone marrow specimens by 4-color flow cytometry. " in: **Blood**, Vol. 98, Issue 8, pp. 2498-507, (2001) (PubMed).

Kapinsky, Torzewski, Büchler, Duong, Rothe, Schmitz: "Enzymatically degraded LDL preferentially binds to CD14(high) CD16(+) monocytes and induces foam cell formation mediated only in part by the class B scavenger-receptor CD36." in: **Arteriosclerosis, thrombosis, and vascular biology**, Vol. 21, Issue 6, pp. 1004-10, (2001) (PubMed).

Hoffmann, deCathelineau, Ogden, Leverrier, Bratton, Daleke, Ridley, Fadok, Henson: " Phosphatidylserine (PS) induces PS receptor-mediated macropinocytosis and promotes clearance of apoptotic cells." in: **The Journal of cell biology**, Vol. 155, Issue 4, pp. 649-59, (2001) (PubMed).

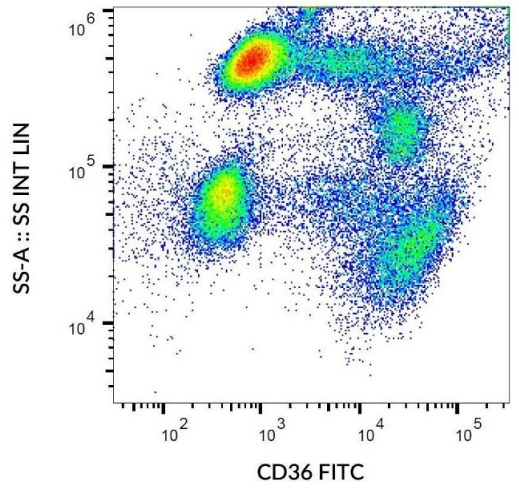
Matasić, Dietz, Vuk-Pavlović: "Dexamethasone inhibits dendritic cell maturation by redirecting differentiation of a subset of cells." in: **Journal of leukocyte biology**, Vol. 66, Issue 6, pp. 909-14, (2000) (PubMed).

There are more publications referencing this product on: Product page



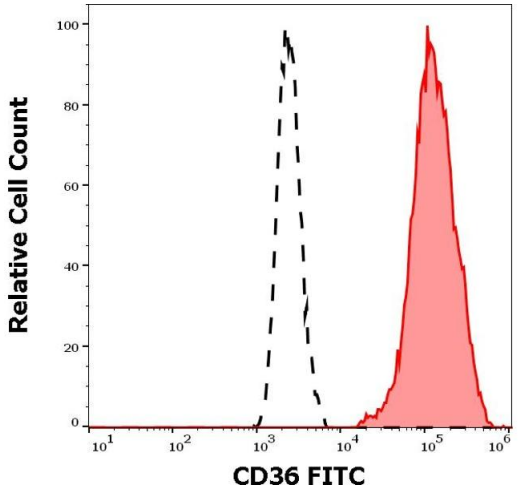
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD36 (CB38) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of CD36 in human peripheral blood with anti-CD36 (CB38) FITC.



Flow Cytometry

Image 3. Separation of human thrombocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD36 (CB38) FITC antibody (4 µL reagent / 100 µL of peripheral whole blood).