

Datasheet for ABIN509572

anti-CD36 antibody

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Overview

Quantity:	0.1 mg
Target:	CD36
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD36 antibody is un-conjugated
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 (GPIIb), a 85-113 kDa integral membrane glycoprotein expressed on platelets, macrophages, endothelial cells, early erythroid cells and megakaryocytes.
Cross-Reactivity (Details):	Human
Purification:	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Purity:	> 95 % (by SDS-PAGE)

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.,GPIIb, 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: Recommended dilution 1 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Preservative:	Sodium azide
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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. 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](#)).

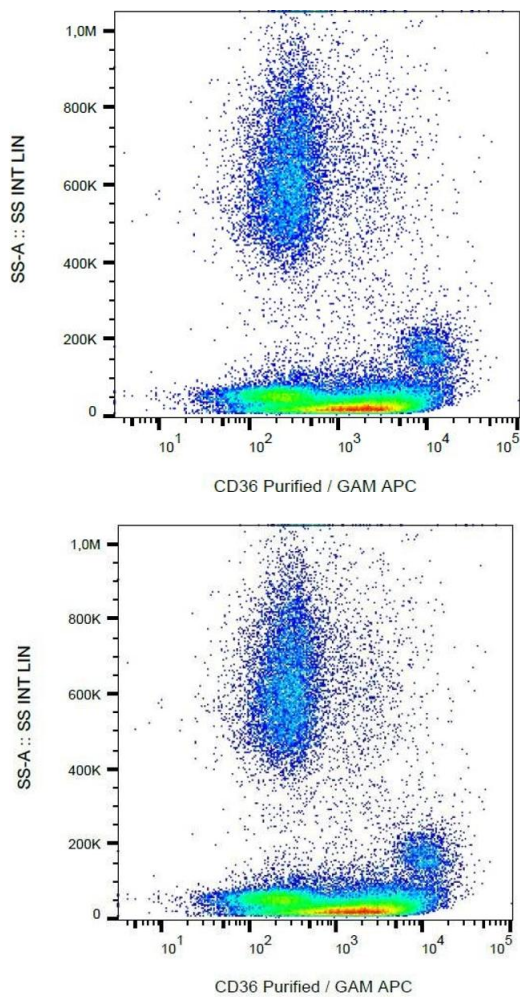
McKenna, Washington, Aquino, Picker, Kroft: "Immunophenotypic analysis of hematogones (B-lymphocyte precursors) in 662 consecutive bone marrow specimens by 4-color flow cytometry." in: **Blood**, Vol. 98, Issue 8, pp. 2498-507, (2001) ([PubMed](#)).

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 analysis (surface staining) of CD36 in human peripheral blood with anti-CD36 (CB38) purified, GAM-APC.

Flow Cytometry

Image 2. Surface staining of CD36 in human peripheral blood with anti-CD36 (CB38) purified, GAM-APC.