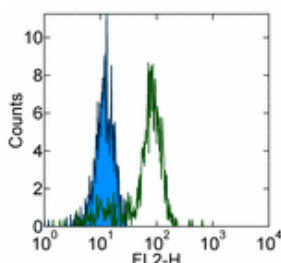


Anti-Human CD36 Purified

Catalog Number: 14-0369

Also Known As: GR4, GP3b, GP IIIb, Thrombospondin Receptor

RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.25 µg of Mouse IgM Isotype Control Purified (cat. 14-4752) (open histogram) or 0.25 µg of Anti-Human CD36 Purified (filled histogram) followed by Anti-Mouse IgM PE (cat. 12-5890). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD36 Purified

REF Catalog Number: 14-0369

Clone: eBioNL07 (NL07)

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgM

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The monoclonal antibody eBioNL07 recognizes human CD36, which is a member of the class B scavenger receptor family. CD36 was originally identified as a platelet-membrane glycoprotein also called glycoprotein IV and a receptor for thrombospondin-1 (TSP-1) and extracellular matrix proteins. Binding to TSP-1 is in the CLESH (CD36 LIMP-II Emp sequence homology) domain of CD36. CD36 expression is broad and includes microvascular (but not large vessel) endothelium, adipocytes, skeletal muscle, dendritic cells, epithelia of the retina, breast, and intestine, smooth muscle cells, and hematopoietic cells, including erythroid precursors, platelets, monocytes/macrophages, DCs and megakaryocytes. Expression on platelets is absent on Nak^a negative donors. Unlike other scavenger receptor, CD36 binds LDL that has been exposed to "minimally" oxidizing conditions. CD36 is also a fatty acid translocase (FAT) necessary for the transport of long-chain fatty acids (LCFAs) and therefore may play a role in atherosclerosis.

Applications Reported

This eBioNL07 (NL07) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioNL07 (NL07) antibody has been tested by flow cytometric analysis of human peripheral blood cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Alessio M, Greco NJ, Primo L, Ghigo D, Bosia A, Tandon NN, Ockenhouse CF, Jamieson GA, Malavasi F. Platelet activation and inhibition of malarial cytoadherence by the anti-CD36 IgM monoclonal antibody NL07. *Blood*. 1993 Dec 15;82(12):3637-47. (NL07, FC, PubMed)

Alessio M, Ghigo D, Garbarino G, Geuna M, Malavasi F. Analysis of the human CD36 leucocyte differentiation antigen by means of the monoclonal antibody NL07. *Cell Immunol*. 1991 Oct 15;137(2):487-500. (NL07, FC, PubMed)

Gruarin P, Ulliers D, Thorne RF, Alessio M. Methionine 156 in the immunodominant domain of CD36 contributes to define the epitope recognized by the NL07 MoAb. *Mol Cell Biochem*. 2000 Nov;214(1-2):89-95. (NL07, PubMed)

Related Products

12-5890 Anti-Mouse IgM PE (eB121-15F9)

14-0361 Anti-Mouse CD36 Purified (No.72-1)

14-4752 Mouse IgM Isotype Control Purified

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