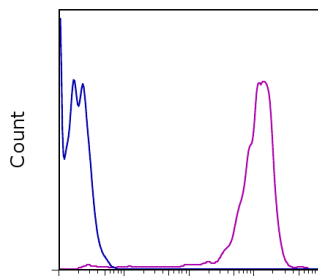


Anti-Human CD36 PerCP-eFluor[®] 710

Catalog Number: 46-0369

Also known as: GR4, GP3b, GP IIIb, Thrombospondin Receptor

RUO: For Research Use Only. Not for use in diagnostic procedures.



CD36 PerCP-eFluor 710

Staining of normal human peripheral blood cells with staining buffer (autofluorescence) (blue histogram) or Anti-Human CD36 PerCP-eFluor[®] 710 (purple histogram). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD36 PerCP-eFluor[®] 710

REF **Catalog Number:** 46-0369

Clone: eBioNL07 (NL07)

Concentration: 5 uL (0.125 ug)/test

Host/Isotype: Mouse IgM

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

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium 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 pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com

Anti-Human CD36 PerCP-eFluor® 710

Catalog Number: 46-0369

Also known as: GR4, GP3b, GP IIIb, Thrombospondin Receptor

RUO: For Research Use Only. Not for use in diagnostic procedures.

after fixation can be made, but clone specific performance should be determined empirically.

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

00-4222 Flow Cytometry Staining Buffer

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com