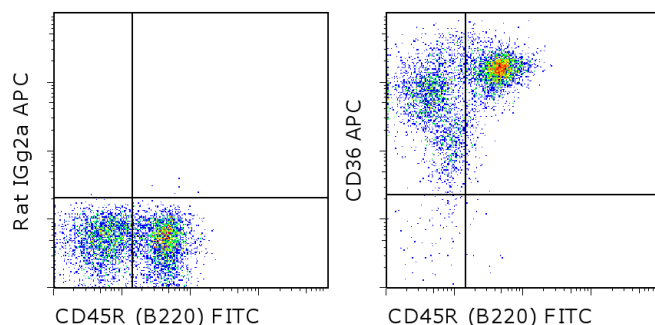


Anti-Mouse CD36 APC

Catalog Number: 17-0361

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

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



Staining of BALB/c bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.03 ug of Rat IgG2a K Isotype Control APC (cat. 17-4321) (left) or 0.03 ug of Anti-Mouse CD36 APC (right). Total viable cells were used for analysis.

Product Information



Contents: Anti-Mouse CD36 APC

Catalog Number: 17-0361

Clone: No.72-1

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, kappa



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 No. 72-1 monoclonal antibody reacts with mouse CD36, which is a 88 kDa member of the class B scavenger receptor family. Murine CD36 was discovered using an expression cloning strategy to identify macrophage receptors that recognized oxidized low-density lipoprotein (oxLDL), but not acetylated low-density lipoprotein (LDL). CD36 is a platelet-membrane glycoprotein, but is also expressed on monocytes/macrophages, granulocytes, B lymphocytes, microvascular endothelial cells, adipocytes, skeletal muscle and dendritic cells. The role of CD36 as a scavenger receptor was confirmed by the CD36-deficient mouse, which was defective in the binding and uptake of oxLDL by peritoneal macrophages. In addition to binding oxLDL, CD36 binds other ligands including TSP-1, anionic phospholipids, apoptotic cells, collagen, *Plasmodium falciparum*-infected erythrocytes and long-chain fatty acids.

Testing also shows staining on some B cells in the bone marrow in addition to the myeloid cells.

Applications Reported

This No.72-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This No.72-1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 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

Endemann G, Stanton LW, Madden KS, Bryant CM, White RT, Protter AA. CD36 is a receptor for oxidized low density lipoprotein. J Biol Chem. 1993 Jun 5;268(16):11811-6.

Febbraio M, Podrez EA, Smith JD, Hajjar DP, Hazen SL, Hoff HF, Sharma K, Silverstein RL. Targeted disruption of the class B scavenger receptor CD36 protects against atherosclerotic lesion development in mice. J Clin Invest. 2000 Apr;105(8):1049-56.

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-Mouse CD36 APC

Catalog Number: 17-0361

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

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

Zhang P, Li W, Wang Y, Hou L, Xing Y, Qin H, Wang J, Liang Y, Han H. Identification of CD36 as a new surface marker of marginal zone B cells by transcriptomic analysis. *Mol Immunol.* 2007 Jan;44(4):332-7.

Related Products

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

17-4321 Rat IgG2a K Isotype Control APC (eBR2a)