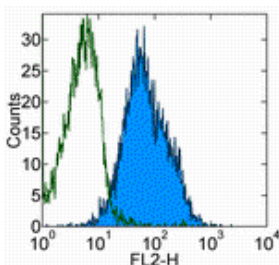


## Anti-Mouse CD36 Purified

**Catalog Number:** 14-0361

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

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



Staining of J774.1 cells with 0.25 ug of Rat IgG2a Isotype Control Purified (cat. 14-4321) (open histogram) or 0.25 ug of Anti-Mouse CD36 Purified (filled histogram) followed by Anti-Rat IgG PE (cat. 12-4822). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse CD36 Purified

**REF** **Catalog Number:** 14-0361

**Clone:** No.72-1

**Concentration:** 0.5 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.



**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 J7441.1 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 10<sup>5</sup> to 10<sup>8</sup> 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.

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

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

12-4822 F(ab')<sub>2</sub> Anti-Rat IgG PE (polyclonal)

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

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