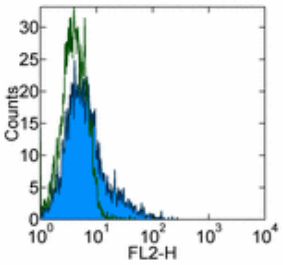
full spectrum cell analysis®
eBioscience®

Anti-Rat CD106 (VCAM-1) Purified

Catalog Number: 14-1060
Also Known As: VCAM1, vascular cell adhesion molecule-1
RUO: For Research Use Only



Staining of rat bone marrow cells with 0.25 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 µg of Anti-Rat CD106 (VCAM-1) Purified (filled histogram) followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Streptavidin PE (cat. 12-4317). Cells in the large scatter population were used for analysis.

Product Information

Contents: Anti-Rat CD106 (VCAM-1) Purified
REF Catalog Number: 14-1060
Clone: eBioMR106 (MR106)
Concentration: 0.5 mg/ml
Host/Isotype: Mouse IgG1, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The eBioMR106 monoclonal antibody reacts with rat CD106 (Vascular Cell Adhesion Molecule-1, VCAM-1), a 110 kDa transmembrane glycoprotein expressed by myeloid lineage and bone marrow stromal cells. Endothelial cells constitutively express low levels of CD106 and further upregulate VCAM-1 upon cytokine stimulation. CD106 binds to integrin α4β1 (VLA-4, CD49d/CD29) and Integrin α4β7 (LPAM-1) and these interactions in the bone marrow and thymus are important for early lymphocyte and myeloid development. Cytokine-mediated upregulation of CD106 on endothelial cells suggests a role for this antigen in the inflammatory response.

Applications Reported

This eBioMR106 (MR106) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB), and immunohistology staining of frozen tissue sections.

Applications Tested

This eBioMR106 (MR106) antibody has been tested by flow cytometric analysis of rat bone marrow 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Williams AJ, Atkins RC, Fries JW, Gimbrone MA Jr, Cybulsky MI, Collins T. Nucleotide sequence of rat vascular cell adhesion molecule-1 cDNA. Biochim Biophys Acta. 1992 Jun 15;1131(2):214-6.

Related Products

11-4011 Anti-Mouse IgG FITC
11-4317 Streptavidin FITC
12-4317 Streptavidin PE
13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4714 Mouse IgG1 K Isotype Control Purified
17-4317 Streptavidin APC