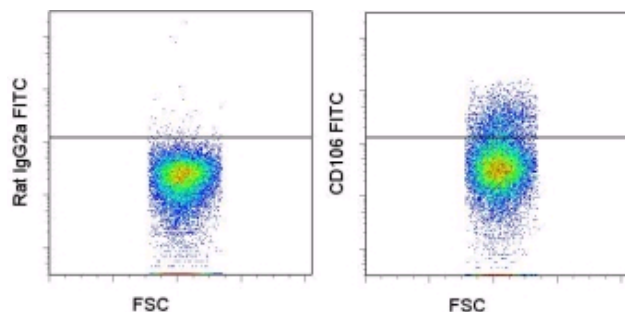


## Anti-Mouse CD106 (VCAM-1) FITC

Catalog Number: 11-1061

Also Known As: VCAM1, vascular cell adhesion molecule-1

RUO: For Research Use Only



Staining of BALB/c bone marrow cells 0.25 µg of Rat IgG2a κ Isotype Control FITC (cat. 11-4321) (left) or 0.25 µg of Anti-Mouse CD106 (VCAM-1) FITC (right). Cells in the large scatter population were used for analysis.

### Product Information

Contents: Anti-Mouse CD106 (VCAM-1) FITC


REF Catalog Number: 11-1061

Clone: 429


Concentration: 0.5 mg/ml

Host/Isotype: Rat IgG2a, κ

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.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The 429 monoclonal antibody reacts with mouse 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 upregulate it upon cytokine stimulation. CD106 binds to integrin  $\alpha_4\beta_1$  (VLA-4, CD49d/CD29) and Integrin  $\alpha_4\beta_7$  (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

The 429 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

The 429 antibody has been tested by flow cytometric analysis of mouse bone marrow cell suspensions. 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

Kinashi, T., Y. St. Pierre, et al. (1995). Expression of glycosphosphatidylinositol-anchored and -non-anchored isoforms of vascular cell adhesion molecule 1 in murine stromal and endothelial cells. *J Leukoc Biol* 57(1): 168-73.

### Related Products

11-4321 Rat IgG2a K Isotype Control FITC

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