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

Catalog Number: 14-1061

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

RUO: For Research Use Only

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### Product Information

**Contents:** Anti-Mouse CD106 (VCAM-1) Purified

**REF** **Catalog Number:** 14-1061

**Clone:** 429

**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.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

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### 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

This 429 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining of frozen tissue sections (IHC-F). It has also been reported in blocking of CD106 in functional studies. (Please use Functional Grade purified 429, cat. 16-1061, in functional assays.)

### 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 0.25  $\mu\text{g}$  per test. A test is defined as the amount ( $\mu\text{g}$ ) of antibody that will stain a cell sample in a final volume of 100  $\mu\text{L}$ . 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

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified

17-4317 Streptavidin APC

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