

## Product Information

Contents: Affinity Purified anti-mouse CD106 (VCAM-1)

Catalog Number: 14-1061

Sizes: 50 ug, 100 ug, 500 ug

Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: 429

Isotype: Rat IgG2a,  $\kappa$

## Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-1061	FITC anti-mouse CD106 (VCAM-1)	488	518	FC
13-1061	Biotin anti-mouse CD106 (VCAM-1)	N/A	N/A	FC
14-1061	Affinity Purified anti-mouse CD106 (VCAM-1)	N/A	N/A	FA FC IHC IP
16-1061	Functional Grade* Purified anti-mouse CD106 (VCAM-1)	N/A	N/A	FA FC
*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg. Purified: Contains azide, not sterile-filtered, and not endotoxin tested.				

## 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.

## Usage

For research use only, not for diagnostic or therapeutic use. The 429 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining. 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 μg per million cells in a 100 μl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

Cat. 11-1061	FITC anti-mouse CD106 (VCAM-1) (clone 429)
Cat. 13-1061	Biotin anti-mouse CD106 (VCAM-1) (clone 429)
Cat. 16-1061	Functional Grade Purified anti-mouse CD106 (VCAM-1) (clone 429)
Cat. 11-4317	Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317	Streptavidin-PE (Phycoerythrin)
Cat. 17-4317	Streptavidin Allophycocyanin (SA-APC)
Cat. 14-4321	Affinity Purified Rat IgG2a Isotype Control
Cat. 11-4811	FITC Anti-Rat IgG
Cat. 13-4813	Biotin Anti-Rat IgG (clone Polyclonal)

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## References

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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.

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