

Product Information

Contents: Affinity Purified anti-human CD106 (V-CAM)

Catalog Number: 14-1069

Sizes: 25 ug, 100 ug

Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: STA

Isotype: Mouse IgG1, κ

HLDA No.: V A013

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-1069	PE anti-human CD106 (V-CAM)	488	575	FC
13-1069	Biotin anti-human CD106 (V-CAM)	N/A	N/A	FC
14-1069	Affinity Purified anti-human CD106 (V-CAM)	N/A	N/A	FC IH/F

Description

The STA monoclonal antibody reacts with human 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 α₄β₁ (VLA-4, CD49d/CD29) and Integrin α₄β₇ (LPAM-1). 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. STA has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections.

Applications Tested

The STA antibody has been tested by flow cytometric analysis of TNF-α-activated HUVEC cells. This can be used at less than or equal to 1 µg per 100 µl blood (or per 1 million cells in 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. 12-1069 PE anti-human CD106 (V-CAM) (clone STA)
- Cat. 13-1069 Biotin anti-human CD106 (V-CAM) (clone STA)
- Cat. 11-4011 FITC Anti-Mouse IgG
- Cat. 13-4013 Biotin Anti-Mouse IgG (clone Polyclonal)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
- Cat. 14-4714 Affinity Purified Mouse IgG1, K Isotype Control

References

Schlossman, S., L. Bloumsell, et al. eds. (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York.

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