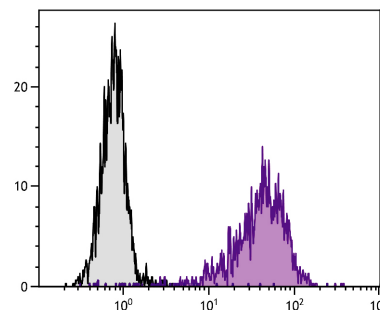




Mouse Anti-Human CD106

Cat. No.	Format	Size
9510-01	Purified (UNLB)	0.1 mg
9510-02	Fluorescein (FITC)	100 tests
9510-08	Biotin (BIOT)	100 tests
9510-09	R-phycoerythrin (PE)	100 tests



TNF α stimulated human endothelial cell line HUV-EC-C was stained with Mouse Anti-Human CD106-PE (SB Cat. No. 9510-09).

Overview

Clone	1.G11B1
Isotype	Mouse IgG $_1$ κ
Immunogen	Unknown
Specificity	Human/Porcine CD106; Mr 110 kDa
Alternate Name(s)	VCAM-1, INCAM-110, vascular cell adhesion molecule-1
Workshop	V E039

Description

CD106, also known as INCAM-110, is a 110 kDa vascular adhesion cell adhesion molecule-1 (VCAM-1) that is member of the immunoglobulin superfamily. CD106 is expressed predominantly on cytokine-activated vascular endothelium but has also been identified on interfollicular dendritic cells, some macrophages, and bone marrow stromal cells. Endothelial CD106 binds the integrins $\alpha_4\beta_1$ (CD49d/CD29, VLA-4) and $\alpha_4\beta_7$ and contributes to extravasation of lymphocytes, monocytes, basophils, and eosinophils (but not neutrophils) from blood vessels, particularly at sites of inflammation. Unlike the β_2 integrins, the CD106-VLA-4 interaction can mediate both the initial tethering and rolling of lymphocytes on endothelium as well as their subsequent arrest and firm adhesion. CD106 expressed on non-vascular tissues has been implicated in the interaction of hematopoietic progenitors with bone marrow stromal cells, B cell binding to follicular dendritic cells, costimulation of T cells, and embryonic development. The monoclonal antibody 1.G11B1 inhibits *in vitro* binding of lymphocytes and monocytes to VCAM-1 on stimulated endothelium.

Applications

FC – Quality tested ⁹⁻¹⁵
 IHC-FS – Reported in literature ³
 ICC – Reported in literature ^{4,5}
 IP – Reported in literature ¹
 WB-NR – Reported in literature ²
 ELISA – Reported in literature ^{1,6-8}
 Block – Reported in literature ¹
 Adhesion – Reported in literature ¹

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	$\leq 1 \mu\text{g}/10^6$ cells
	FITC, BIOT, and PE conjugates	$10 \mu\text{L}/10^6$ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL .		

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

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