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HIGH PERFORMANCE ANTIBODIES ... AND MORE

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CD106 Antibody [1.G11B1] (Biotin)

Cat. No.: 99-410

CD106 Antibody [1.G11B1] (Biotin)

Specifications

HOST SPECIES:	Mouse
SPECIES REACTIVITY:	Human, Porcine
TESTED APPLICATIONS:	Flow
APPLICATIONS:	CD106 Antibody [1.G11B1] for use in flow cytometry, immunohistochemistry / immunocytochemistry, western blotting, immunoprecipitation, and ELISA assays.
SPECIFICITY:	CD106

Properties

CLONALITY:	Monoclonal
ISOTYPE:	IgG1
CONJUGATE:	Biotin
PHYSICAL STATE:	Liquid
BUFFER:	Supplied in PBS/NaN3
CONCENTRATION:	Lot specific
STORAGE CONDITIONS:	Store vial at 2-8˚C

Additional Info

OFFICIAL SYMBOL:	VCAM1
ALTERNATE NAMES:	VCAM-1, INCAM-110, vascular cell adhesion molecule-1
ACCESSION NO.:	P19320
GENE ID:	7412
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	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 alpha4beta1 (CD49d/CD29, VLA-4) and alpha4beta7 and contributes to extravasation of lymphocytes, monocytes, basophils, and eosinophils (but not neutrophils) from blood vessels, particularly at sites of inflammation. Unlike the beta2 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.