

Product datasheet for AM26158PU-N

VCAM1 Mouse Monoclonal Antibody [Clone ID: 1G11B1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1G11B1
Applications:	FN, IF, IHC, IP
Recommended Dilution:	 Immunohistochemistry on Frozen Sections: fixed in acetone, and incubated with mAb at 10µg/ml in PBS/0.1% tween20, starting working dilution is 1/50. Flow Cytometry: 1µg mAb per 1x10⁵ cells. Functional Assays: Stimulated EC were preincubated for 30' at 37°C with mAb and than used in adhesion assay with T-cells. Immunoflourescence. Immunprecipitation: Precleared EC lysates were immunoprecipitated with mAB and analyzed by 7.5% SDS-PAGE under reducing conditions. Positive Control: Activated endothelial cells.
Reactivity:	Human
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length protein
Specificity:	This antibody recognizes vascular Cell Adhesion Molecule-1 (VCAM-1).
Formulation:	PBS State: Purified State: Liquid 0.2 μm filtered purified antibody solution Stabilizer: 0.1% BSA
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	vascular cell adhesion molecule 1



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	VCAM1 Mouse Monoclonal Antibody [Clone ID: 1G11B1] – AM26158PU-N
Database Link:	<u>Entrez Gene 7412 Human</u> <u>P19320</u>
Background:	VCAM-1 is a member of the immunoglobulin superfamily of adhesion molecules, which includes ICAMs, PECAM-s and MADCAM, and is involved in leukocyte-endothelial cell interactions. The immunoglobulin superfamily is a type I transmembrane protein characterized by extracellular immunoglobin domains, a transmembrane region and a cytoplasmic tail. They are essential for the development of the embryo and for immune and inflammatory responses. These transmembrane glycoproteins mediate cell interaction with, and adhesion to, other cells and the extracellular matrix. VCAM-1 contains six immunoglobulin domains of the H-type and interacts with VLA-4 expressed on leukocytes. Multiple adhesion molecules play a role in leukocyte recruitment. The process of migration of a leukocyte through the vascular endothelium consists of the following steps: leukocyte- endothelium interaction (first tethering and rolling and than adhesion) and transendothelial migration. VCAM-1 is almost not expressed under physiological conditions. However, under appropriate pro-inflammatory conditions where the endothelium is exposed to inflammatory cytokines such as tumour necrosis factor- α or IL-1b and becomes activated, VCAM-1 gene expression is rapid elevated by the vascular endothelium. There is also a soluble form of VCAM-1 which is angiogenic and chemotactic for endothelial cells. sVCAM-1 is up-regulated in several disease states (eg, myocardial infarction, type 2 diabetes mellitus, primary antiphospholipid syndrome, and rheumatoid arthritis).
Synonyms:	V-CAM 1, INCAM-100, L1CAM, VCAM-1

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