

Product datasheet for AM26158BT-N

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

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.

Flow cytometry.
Functional assays.
Immunoflourescence.
Immunoprecipitation.

The typical starting working dilution is 1:50. Positive control: Activated endothelial cells.

Reactivity: Human
Host: Mouse
Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full length protein

Specificity: This antibody recognizes vascular cell adhesion molecule-1 (VCAM-1).

Formulation: PBS

Label: Biotin

State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: 0.02% sodium azide

Concentration:lot specificPurification:Protein GConjugation:Biotin

Storage: Store at 2 - 8 °C.

Stability: Shelf life: one year from despatch.

Gene Name: vascular cell adhesion molecule 1



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Entrez Gene 7412 Human Database Link:

P19320

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: leukocyteendothelium 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).

V-CAM 1, INCAM-100, L1CAM, VCAM-1 Synonyms: