

Product datasheet for **AM26309PU-N**

Vcam1 Rat Monoclonal Antibody [Clone ID: 6C7.1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6C7.1
Applications:	FC, FN, IF, IHC, IP
Recommended Dilution:	Immunohistochemistry on frozen sections. Flow cytometry: The typical starting working dilution is 1:50. Functional assays. Immunofluorescence: The typical starting working dilution is 1:50. Immunoprecipitation.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Mouse endothelial cells
Specificity:	The monoclonal antibody 6C7.1 recognizes mouse vascular cell adhesion molecule (VCAM-1).
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	vascular cell adhesion molecule 1
Database Link:	Entrez Gene 22329 Mouse P29533



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Background:

VCAM-1 (~ 81 kDa) is a member of a subclass of the immunoglobulin superfamily (IgSF). IgSF members are ligands for integrins. Cell adhesion molecules (CAMs) have important roles in the immune response, immune surveillance and cell-cell recognition, especially in leukocyte-endothelial cell adhesion. CAMs on the surface of leukocytes and endothelial cells are actively involved in the recruitment of specific leukocyte subsets into different tissues. VCAM-1 is expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue. Cell adhesion molecules, like VCAM-1, are upregulated on cerebral vessels during inflammatory conditions of the central nervous system such as experimental autoimmune encephalomyelitis (EAE), a model system for multiple sclerosis. Administration of monoclonal antibody 6C7.1 has been shown to inhibit or diminish clinical or pathological signs of EAE. VCAM-1 is a receptor for encephalomyocarditis virus on murine vascular endothelial cells. Expression of VCAM-1 on vascular endothelial cells is induced by TNF-alpha, IL-1, IFN-gamma or endotoxin. VCAM-1 is a ligand for the integrins alpha4beta1 (VLA-4) and alpha4beta7 (LPAM-1). These integrins are constitutively expressed by thymocytes, lymphocytes and monocytes. VCAM-1/VLA-4 interaction may play a pathophysiological role in immune responses and as well as in leukocyte emigration to sites of inflammation.

Synonyms:

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