

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