

Product datasheet for **AM33018PU-N**

VCAM1 Mouse Monoclonal Antibody [Clone ID: 4B9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4B9
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	Western blot. Flow Cytometry. Immunoprecipitation. Immunocytochemistry. Immunohistochemistry on Frozen Sections. <i>Recommended Dilutions:</i> Use 1/25–1/200 for Flow Cytometry, and for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1/100–1/1000 for immunoblotting applications.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Immunization of Balb/c mice with human umbilical vein endothelium (HUVE) that were nonenzymatically harvested after stimulation for 24h with recombinant human (rh) TNF- α (10 ng/ml). Splenocytes were fused with the NS-1 nonsecretory murine myeloma line.
Specificity:	The antibody binds exclusively to the cytokine-induced endothelial cell adhesion protein, vascular cell adhesion molecule-1 (VCAM-1).
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.



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Stability:	Shelf life: one year from despatch.
Gene Name:	vascular cell adhesion molecule 1
Database Link:	Entrez Gene 7412 Human P19320
Background:	<p>Vascular cell adhesion molecule-1 (VCAM-1) is induced on human umbilical vein endothelium (HUVE) by recombinant human tumor necrosis factor - α (rh TNF-α), rh interleukin-1 (IL-1) and lipopolysaccharide (LPS) and is involved in adherence of lymphocytic cell lines to HUVE. VCAM-1 is only minimally expressed on unstimulated endothelium. Molecular cloning and sequencing of VCAM-1 predicts a 69-kDa core protein with 6 potential N-linked glycosylation sites, if the protein is fully glycosylated a mature protein of about 90kDa is yielded. VCAM-1 mediates a component of the adherence of Peripheral Blood Lymphocytes (PBL) to rh TNF-stimulated HUVE, this CD18 independent mechanism of lymphocyte adherence to cytokine stimulated endothelium may be an important pathway of lymphocyte emigration at sites of inflammation and immune reaction.</p>
Synonyms:	V-CAM 1, INCAM-100, L1CAM, VCAM-1