

#14694 Store at -20°C

VCAM-1 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	M R	Endogenous	35-45, 85-100	Rabbit	#P29533	22329

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	VCAM-1 Antibody recognizes endogenous levels of total VCAM-1 protein. This antibody recognizes both long and short isoforms of VCAM-1 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln203 of mouse VCAM-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	VCAM-1 (vascular cell adhesion molecule-1) is a transmembrane glycoprotein containing multiple amino-terminal extracellular Ig-like domains, a transmembrane domain, and a short carboxy-terminal cytoplasmic domain (1). Alternative splicing generates two isoforms of VCAM-1 (2). The role of VCAM-1 during infection and inflammatory diseases is well characterized. Expression of VCAM-1 is induced in endothelial cells by inflammatory cytokines including TNF-α and IL-1β (1). VCAM-1 on endothelial cells interacts with the integrin VLA-4 (α4β1) on leukocytes to mediate migration of circulating leukocytes from the blood across the endothelium and into tissues (3).	
Background References	<ol style="list-style-type: none"> Osborn, L. et al. (1989) <i>Cell</i> 59, 1203-11. Hession, C. et al. (1991) <i>J Biol Chem</i> 266, 6682-5. Elices, M.J. et al. (1990) <i>Cell</i> 60, 577-84. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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