

VCAM-1 Antibody

✓ 100 µl
(10 western blots)



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New 01/13

For Research Use Only. Not For Use In Diagnostic Procedures.

Entrez-Gene ID #7412
Swiss-Prot Acc. #P19320

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.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:50

For product specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended complementary products.

Applications W, IP Endogenous	Species Cross-Reactivity* H	Molecular Wt. 95-120 kDa	Source Rabbit**
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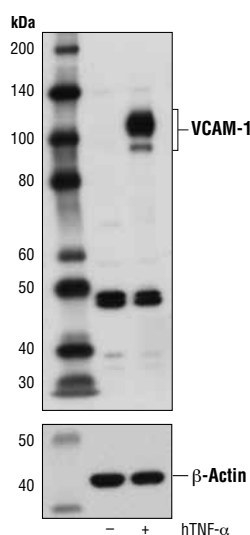
Background: VCAM-1 (vascular cell adhesion molecule-1) is a transmembrane glycoprotein containing multiple amino-terminal extracellular Ig-like domains, a transmembrane domain, and a short carboxy-terminal cytoplasmic domain (1). Alternative splicing generates two isoforms of VCAM-1 (2). The role of 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-1 β (1). VCAM-1 on endothelial cells interacts with the integrin VLA-4 ($\alpha 4\beta 1$) on leukocytes to mediate migration of circulating leukocytes from the blood across the endothelium and into tissues (3).

Specificity/Sensitivity: VCAM-1 Antibody recognizes endogenous levels of total VCAM-1 protein. This antibody cross-reacts with proteins of unknown origin 48 and 49 kDa.

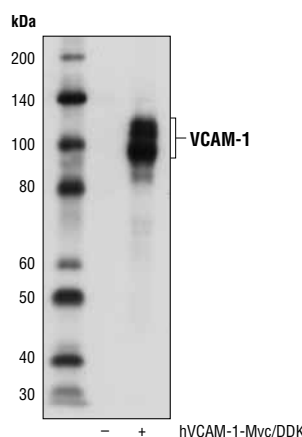
Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro354 of human VCAM-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

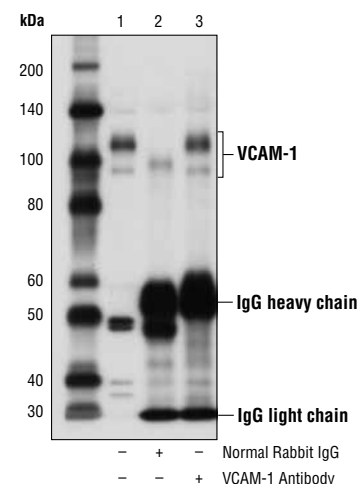
- (1) Osborn, L. et al. (1989) *Cell* 59, 1203-11.
- (2) Hession, C. et al. (1991) *J Biol Chem* 266, 6682-5.
- (3) Elices, M.J. et al. (1990) *Cell* 60, 577-84.



Western blot analysis of extracts from HUVE cells, untreated (-) or treated with Human Tumor Necrosis Factor- α (hTNF- α) #8902 (10 ng/mL, 16 hr; +), using VCAM-1 Antibody (upper) or β -Actin (D6A8) Rabbit mAb #8457 (lower).



Western blot analysis of extracts from 293T cells, mock transfected (-) or transfected with a construct expressing Myc/DDK-tagged full-length human VCAM-1 (hVCAM-1-Myc/DDK; +), using VCAM-1 Antibody.



Immunoprecipitation of VCAM-1 from HUVEC extracts, treated with Human Tumor Necrosis Factor- α (hTNF- α) #8902 (10 ng/ml, 16 hr), using Normal Rabbit IgG #2729 (lane 2) or VCAM-1 Antibody (lane 3). Lane 1 is 10% input. Western blot analysis was performed using VCAM-1 Antibody.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.