

#39036 Store at -20°C

## VCAM-1 (D8U5V) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-F, IF-IC, FC-FP	M	Endogenous	35-45, 85-100	Rabbit IgG	#P29533	22329

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Frozen)  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)

#### Dilution

1:1000  
1:100  
1:400  
1:400  
1:200

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

VCAM-1 (D8U5V) Rabbit mAb recognizes endogenous levels of total VCAM-1 protein. This antibody recognizes both long and short isoforms of VCAM-1 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant mouse VCAM-1 protein.

### 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

- Osborn, L. et al. (1989) *Cell* 59, 1203-11.
- Hession, C. et al. (1991) *J Biol Chem* 266, 6682-5.
- Elices, M.J. et al. (1990) *Cell* 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 **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen)  
**IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

### 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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