

Store at  
4°C  
**#15631**

# VCAM-1 (D8U5V) Rabbit mAb (Mouse Specific) (Alexa Fluor® 488 Conjugate)



**Support:** +1-978-867-2388 (U.S.)  
www.cellsignal.com/support

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**Entrez-Gene ID** #22329  
**UniProt ID** #P29533

New 10/18

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

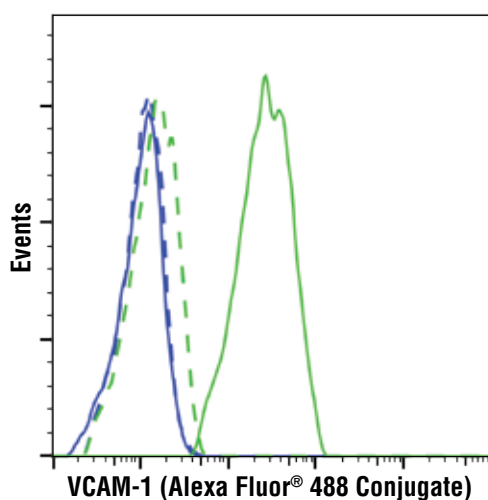
| Applications    | Species Cross-Reactivity | Isotype    |
|-----------------|--------------------------|------------|
| F<br>Endogenous | M                        | Rabbit IgG |

**Description:** This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in mouse cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated VCAM-1 (D8U5V) Rabbit mAb (Mouse Specific) #39036.

**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- $\alpha$  and IL-1 $\beta$  (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 (D8U5V) Rabbit mAb (Mouse Specific) (Alexa Fluor® 488 Conjugate) 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.



Flow cytometric analysis of A20 cells (blue) and MS1 cells (green) using VCAM-1 (D8U5V) Rabbit mAb (Mouse Specific) (Alexa Fluor® 488 Conjugate) (solid lines) or concentration-matched Rabbit (DA1E) mAb IgG XP® Isotype Control (Alexa Fluor® 488 Conjugate) #2975 (dashed lines).

**Storage:** Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

#### Recommended Antibody Dilutions:

Flow Cytometry 1:50

**For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com).**

#### 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.

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**Applications:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** 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.