Store at 4°C

#15631

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

Cell Signaling TECHNOLOGY®

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New 10/18

Entrez-Gene ID #22329
UniProt ID #P29533

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

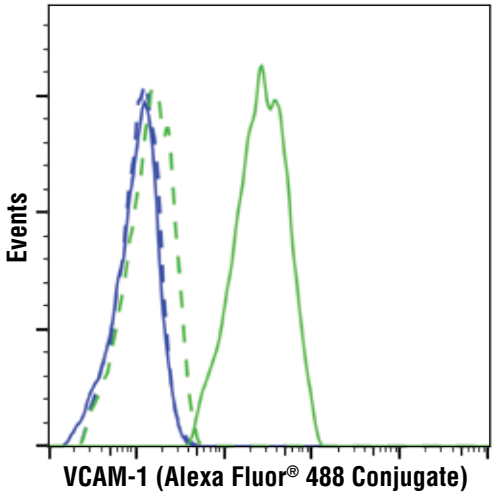
Applications	Species Cross-Reactivity	Isotype
F Endogenous	M	Rabbit IgG

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-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).

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.

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.