Revision 4

#15631 Store at +4C

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

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	M	Endogenous	Rabbit IgG	#P29533	22329

Product Usage Information

Application	Dilution
Flow Cytometry (Fixed/Permeabilized)	1:50

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.

Specificity / Sensitivity

VCAM-1 (D8U5V) Rabbit mAb (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.

Product 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 #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).

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

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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