#44464 Store at -20C

CEACAM1 (D3R8O) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:Reactivity:Sensitivity:MW (kDa):Source/Isotype:UniProt ID:Entrez-Gene Id:WB, IHC-PHEndogenous120-150Rabbit IgG#P13688634

Product Usage
InformationApplicationDilution
1:1000Western Blotting
Immunohistochemistry (Paraffin)1:400

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.

For a carrier free (BSA and azide free) version of this product see product #24107.

Specificity / Sensitivity

CEACAM1 (D3R8O) Rabbit mAb recognizes endogenous levels of total CEACAM1 protein.

Source / Purification Monoclonal antib

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe361 of human CEACAM1 protein.

Background

CEACAM1 (also known as C-CAM and CD66a) is a member of CEA-related cell-adhesion molecule (CEACAM) subfamily of the carcinoembryonic antigen (CEA) family (1). CEACAM1 is expressed by certain epithelial, endothelial, lymphoid, and myeloid cells. Human CEACAM1 has many different splice variants; the abundance of CEACAM1 and the relative ratio of the different isoforms varies markedly among cell types and may be regulated in a context-dependent fashion. The isoforms with long (L) and short (S) cytoplasmic tails have different signaling properties. Notably, L isoforms contain a functional ITIM (immunoreceptor tyrosine-based inhibitory motif) and several serine and threonine residues that could serve as potential phosphorylation targets. The extracellular domain of CEACAM1 is heavily glycosylated, making its apparent molecular weight during electrophoresis much larger than its predicted size (57.6 kDa) (2). CEACAM1 mediates intercellular adhesion through homo- and heterophilic interaction with other members of the CEACAM family. Studies indicate that CEACAM1 plays important roles in angiogenesis, neovascularization, insulin signaling, T cell signaling, and tumorigenesis (3-8). In addition, CEACAM1 can function as a receptor for several microbial pathogens (9,10).

Background References

- 1. Kuespert, K. et al. (2006) Curr Opin Cell Biol 18, 565-71.
- 2. Gray-Owen, S.D. and Blumberg, R.S. (2006) Nat Rev Immunol 6, 433-46.
- 3. Horst, A.K. et al. (2006) J Clin Invest 116, 1596-605.
- 4. Ergün, S. et al. (2000) Mol Cell 5, 311-20.
- 5. Kammerer, R. et al. (2001) *J Immunol* 166, 6537-44.
- 6. Poy, M.N. et al. (2002) Nat Genet 30, 270-6.
- 7. Hsieh, J.T. et al. (1995) Cancer Res 55, 190-7.
- 8. Leung, N. et al. (2006) *Oncogene* 25, 5527-36.
- 9. Hemmila, E. et al. (2004) J Virol 78, 10156-65.
- 10. Voges, M. et al. (2010) BMC Microbiol 10, 117.

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 IHC-P: Immunohistochemistry (Paraffin)

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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Limited Uses

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