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Fo	r Research	Use Only	. Not for	Use in I	Diagnostic	Procedures.

CEACAM1 (D1P4T) Rabbit mAb

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit IgG	UniProt ID: #P13688	Entrez-Gene Id: 634			
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation			Dilution 1:1000 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		CEACAM1 (D1P4T) Rabbit mAb recognizes endogenous levels of total CEACAM1 protein.							
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala460 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 Refer	2. (3. 4. [5. 6. [7. 8. [9.	Kuespert, K. et al. (200 Gray-Owen, S.D. and Horst, A.K. et al. (2006 Ergün, S. et al. (2000) Kammerer, R. et al. (2 Poy, M.N. et al. (2002) Hsieh, J.T. et al. (2006) Hemmila, E. et al. (2010) Voges, M. et al. (2010)	Blumberg, R.S. 5) J Clin Invest 1 Mol Cell 5, 311 001) J Immunol Nat Genet 30, 5) Cancer Res 55 0 Oncogene 25, 04) J Virol 78, 10	(2006) Nat Rev Immune .16, 1596-605. -20. 166, 6537-44. 270-6. 5, 190-7. 5527-36. D156-65.	d 6, 433-46.				
Species Reactivity	/ Spe	ecies reactivity is deter	mined by testine	g in at least one approve	ed application (e.g., we	stern blot).			
Western Blot Buffe		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							
Cross-Reactivity k	Reactivity KeyH: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogas 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					-			
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc.							

CEACAM1 (D1P4T) Rabbit mAb (#14771) Datasheet Without Images Cell Signaling Technology

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