

CD9 (D8O1A) Rabbit mAb



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Applications: W, W-S	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 22, 24, 35	Source/Isotype: Rabbit IgG	UniProt ID: #P21926	Entrez-Gene Id: 928
Product Usage Information		Application Western Blotting Simple Western™		Dilution 1:1000 1:50 - 1:250		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CD9 (D8O1A) Rabbit mAb recognizes endogenous levels of total CD9 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val178 of human CD9 protein.				
Background		The CD9 antigen belongs to the tetraspanin family of cell surface glycoproteins, and is characterized by four transmembrane domains, one short extracellular domain (ECL1), and one long extracellular domain (ECL2). Tetraspanins interact with a variety of cell surface proteins and intracellular signaling molecules in specialized tetraspanin-enriched microdomains (TEMs), where they mediate a range of processes including adhesion, motility, membrane organization, and signal transduction (1). Research studies demonstrate that CD9 expression on the egg is required for gamete fusion during fertilization (2-4). CD9 was also shown to play a role in dendritic cell migration, megakaryocyte differentiation, and homing of cord blood CD34+ hematopoietic progenitors to the bone marrow (5-7). In addition, downregulation of CD9 expression is associated with poor prognosis and progression of several types of cancer (8-10). Additional research identified CD9 as an abundant component of exosomes, and may play some role in the fusion of these secreted membrane vesicles with recipient cells (11).				
Background References		 Hemler, M.E. (2005) Nat Rev Mol Cell Biol 6, 801-11. Le Naour, F. et al. (2000) Science 287, 319-21. Miyado, K. et al. (2000) Nat Genet 24, 279-82. Mantegazza, A.R. et al. (2004) Blood 104, 1183-90. Clay, D. et al. (2001) Blood 97, 1982-9. Leung, K.T. et al. (2011) Blood 117, 1840-50. Miyake, M. et al. (1995) Cancer Res 55, 4127-31. Higashiyama, M. et al. (1995) Cancer Res 55, 6040-4. Uchida, S. et al. (1999) Br J Cancer 79, 1168-73. Théry, C. et al. (1999) J Cell Biol 147, 599-610. 				
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		W: Western Blotting W-S: Simple Western™				

Cross-Reactivity Key

H: Human

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