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Applications: Reactive W, IHC-P H	<b>ity:</b> Sensitivity: Endogenous	<b>MW (kDa):</b> 22, 24, 35	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P21926	Entrez-Gene Id: 928			
Product Usage Information	<b>Application</b> Western Blotting Immunohistochemist				<b>Dilution</b> 1:1000 1:100 - 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	For a carrier free (BSA and azide free) version of this product see product #73765.						
Specificity/Sensitivity	CD9 (D3H4P) Rabbit n	CD9 (D3H4P) 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	four transmembrane domain (ECL2). Tetras molecules in specializ processes including a studies demonstrate ( (2-4). CD9 was also sh homing of cord blood downregulation of CD of cancer (8-10). Addit	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	und References 1. Hemler, M.E. (2005) Nat Rev Mol Cell Biol 6, 801-11.   2. Le Naour, F. et al. (2000) Science 287, 319-21.   3. Miyado, K. et al. (2000) Nat Genet 24, 279-82.   5. Mantegazza, A.R. et al. (2004) Blood 104, 1183-90.   6. Clay, D. et al. (2001) Blood 97, 1982-9.   7. Leung, K.T. et al. (2011) Blood 117, 1840-50.   8. Miyake, M. et al. (1995) Cancer Res 55, 4127-31.   9. Higashiyama, M. et al. (1995) Cancer 79, 1168-73.   11. Théry, C. et al. (1999) J Cell Biol 147, 599-610.							
Species Reactivity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 I	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivity Key	H: Human	H: Human						
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