CD13/APN (E1Y7U) Rabbit mAb



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 140-160	Source/Isotype: Rabbit IgG	UniProt ID: #P15144	Entrez-Gene Id: 290		
Product Usage Information	9	Application Western Blotting			Dilution 1:1000			
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		CD13/APN (E1Y7U) Rabbit mAb recognizes endogenous levels of total CD13/APN protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg90 of human CD13/APN protein.						
Background		Aminopeptidase N (APN, CD13) is a widely expressed, membrane-bound proteolytic enzyme that breaks down peptides during digestion, cleaves cell surface antigens during antigen presentation, and acts as a receptor for human viruses, including several coronaviruses. This multifunctional protein is implicated in the regulation of many biological processes, including angiogenesis, cell proliferation, cell migration, inflammation and immune response (1,2). APN was originally identified as the cell surface antigen CD13, which is expressed in myeloid lineage hematopoietic cells and myeloid leukemia (3). Identified substrates of aminopeptidase N include the angiotensin I-III peptide hormones, the opioid peptide met-enkephalin, and cytokines MCP-1 and MIP-1 (4). Abnormal APN protein expression is seen in various forms of cancer, with high APN expression associated with poor survival in colon cancer and non-small cell lung cancer and silenced APN expression related to poor prognosis in prostate cancer (5- 7).						
Background Ro	eferences	1. Luan, Y. and Xu, W. (2007) Curr Med Chem 14, 639-47. 2. Mina-Osorio, P. (2008) Trends Mol Med 14, 361-71. 3. Look, A.T. et al. (1989) J Clin Invest 83, 1299-307. 4. Bauvois, B. (2004) Oncogene 23, 317-329. 5. Hashida, H. et al. (2002) Gastroenterology 122, 376-86. 6. Tokuhara, T. et al. (2006) Clin Cancer Res 12, 3971-8. 7. Sørensen, K.D. et al. (2013) Br J Cancer 108, 420-8.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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