Limited Uses

ADAM9 (D64B5) Rabbit mAb



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100-115, 75-80	Source/Isotype: Rabbit IgG	UniProt ID: #Q13443	Entrez-Gene Id: 8754
Product Usage Information		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		ADAM9 (D64B5) Rabbit mAb detects endogenous levels of total ADAM9 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val611 of human ADAM9 protein.				
Background		The ADAM (A Disintegrin and A Metalloprotease) family of multidomain membrane proteins influences cell signaling and adhesion by shedding cell surface proteins such as cytokines and growth factors, by influencing cell adhesion to the extracellular matrix (ECM), and by directly remodeling the ECM. Conserved domains in ADAM family members include a prodomain, a zinc-dependent metalloprotease domain, a disintegrin domain, a cysteine-rich domain, an EGF-like sequence, and a short cytoplasmic tail (1,2). The prodomain is thought to aid in protein folding. Disintegrin and cysteine-rich domains mediate adhesion, at least in part, through binding to integrins. Phosphorylation of the cytoplasmic tail as well as its interaction with other signaling proteins may influence intra- and extracellular signaling (1). ADAM9 is widely distributed and has been shown to affect migration in skin keratinocytes (3,4). Research studies have shown that ADAM9 is overexpressed in prostate cancer (5), pancreatic cancer (6), gastric cancer (7), and has been linked to invasion and metastasis in small cell lung cancer (8). Research has also shown that an alternatively spliced short (50 kDa) form of ADAM9 containing protease activity is involved in tumor cell invasion (9).				
Background References		 N. M. Hooper and U. Lendeckel The Netherlands: Springer, 2005 Schlöndorff, J. and Blobel, C.P. (1999) J Cell Sci 112 (Pt 21), 3603-17. Franzke, C.W. et al. (2002) EMBO J 21, 5026-35. Zigrino, P. et al. (2007) J Biol Chem 282, 30785-93. Fritzsche, F.R. et al. (2008) Eur Urol 54, 1097-106. Grützmann, R. et al. (2004) Br J Cancer 90, 1053-8. Carl-McGrath, S. et al. (2005) Int J Oncol 26, 17-24. Shintani, Y. et al. (2004) Cancer Res 64, 4190-6. Mazzocca, A. et al. (2005) Cancer Res 65, 4728-38. 				
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				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				

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