Store at -20C

## ADAM9 (D64B5) Rabbit mAb



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**For Research Use Only. Not for Use in Diagnostic Procedures.** 

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 100-115, 75-80	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #Q13443	Entrez-Gene Id: 8754		
Product Usage Information		<b>Application</b> 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.				ol and less than		
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 Background Re	eferences	<ul> <li>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.</li> <li>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).</li> <li>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).</li> <li>Giebeler, N. and Zigrino, P. (2016) <i>Toxins (Basel)</i> 8, 122.</li> <li>Schlöndorff, J. and Blobel, C.P. (1999) <i>J Cell Sci</i> 112 (Pt 21), 3603-17.</li> </ul>						
		<ol> <li>Franzke, C.W. et al. (2002) <i>EMBO J</i> 21, 5026-35.</li> <li>Zigrino, P. et al. (2007) <i>J Biol Chem</i> 282, 30785-93.</li> <li>Fritzsche, F.R. et al. (2008) <i>Eur Urol</i> 54, 1097-106.</li> <li>Grützmann, R. et al. (2004) <i>Br J Cancer</i> 90, 1053-8.</li> <li>Carl-McGrath, S. et al. (2005) <i>Int J Oncol</i> 26, 17-24.</li> <li>Shintani, Y. et al. (2004) <i>Cancer Res</i> 64, 4190-6.</li> <li>Mazzocca, A. et al. (2005) <i>Cancer Res</i> 65, 4728-38.</li> </ol>						
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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