لم Jagged1 (28H8) Rabbit mAb





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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit IgG	UniProt ID: #P78504	Entrez-Gene Id: 182		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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/Sen	sitivity	Jagged1 (28H8) Rabbit mAb detects endogenous levels of total Jagged1 protein. It does not cross-react with Jagged2.						
Species predict based on 100% homology	ted to react sequence	Rat						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu1140 (intracellular region) of human Jagged1.						
Background		Notch signaling is activated upon engagement of the Notch receptor with its ligands, the DSL (Delta, Serrate, Lag2) proteins of single-pass type I membrane proteins. The DSL proteins contain multiple EGF-like repeats and a DSL domain that is required for binding to Notch (1,2). Five DSL proteins have been identified in mammals: Jagged1, Jagged2, Delta-like (DLL) 1, 3 and 4 (3). Ligand binding to the Notch receptor results in two sequential proteolytic cleavages of the receptor by the ADAM protease and the γ-secretase complex. The intracellular domain of Notch is released and then translocates to the nucleus where it activates transcription. Notch ligands may also be processed in a way similar to Notch, suggesting a bi-directional signaling through receptor-ligand interactions (4-6). Mutation in Jagged1 is associated with Alagille syndrome, an autosomal dominant disorder characterized by abnormal development of liver, heart, skeleton, eye, and face (7, 8) and Tetralogy of Fallot (ToF), a common form of complex congenital heart disease (9). Jagged1 expression is associated with prostate cancer metastasis and recurrence (10).						
Background Re	eferences	 Wilson, A. and Radtke, F. (2006) <i>FEBS Lett.</i> 580, 2860-2868. Hansson, E.M. et al. (2004) <i>Semin. Cancer Biol.</i> 14, 320-328. Chiba, S. (2006) <i>Stem Cells</i> 24, 2437-2447. Bland, C.E. et al. (2003) <i>J. Biol. Chem.</i> 278, 13607-13610. Six, E. et al. (2003) <i>Proc. Natl. Acad. Sci. USA</i> 100, 7638-7643. LaVoie, M.J. and Selkoe, D.J. (2003) <i>J. Biol. Chem.</i> 278, 34427-34437. Li, L. et al. (1997) <i>Nat. Genet.</i> 16, 243-251. Röpke, A. et al. (2003) <i>Hum. Mutat.</i> 21, 100. Eldadah, Z.A. et al. (2001) <i>Hum. Mol. Genet.</i> 10, 163-169. Santagata, S. et al. (2004) <i>Cancer Res</i> 64, 6854-6857. 						
Species Reactiv	vitv	Species reactivity is det	termined by testin	n in at least one approve	d application (e.g.,	western blot).		
Western Blot B	Buffer	IMPORTANT: For weste	ern blots, incubate	membrane with diluted	orimary antibody ir	n 5% w/v nonfat		
		dry milk, 1X TBS, 0.1%	Tween® 20 at 4°C	with gentle shaking, ove	rnight.			
Applications K	ey	W: Western Blotting IP	: Immunoprecipita	ation				
Cross-Reactivit	ty Key	H: Human M: Mouse						
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