

#2155 Store at -20C

Jagged1 (1C4) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	180	Rabbit IgG	#P78504	182

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	Jagged1 (1C4) Rabbit mAb detects endogenous level of total Jagged1 protein. It does not cross-react with Jagged2.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly867 (extracellular 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 References	1. Wilson, A. and Radtke, F. (2006) <i>FEBS Lett.</i> 580, 2860-2868. 2. Hansson, E.M. et al. (2004) <i>Semin. Cancer Biol.</i> 14, 320-328. 3. Chiba, S. (2006) <i>Stem Cells</i> 24, 2437-2447. 4. Bland, C.E. et al. (2003) <i>J. Biol. Chem.</i> 278, 13607-13610. 5. Six, E. et al. (2003) <i>Proc. Natl. Acad. Sci. USA</i> 100, 7638-7643. 6. LaVoie, M.J. and Selkoe, D.J. (2003) <i>J. Biol. Chem.</i> 278, 34427-34437. 7. Li, L. et al. (1997) <i>Nat. Genet.</i> 16, 243-251. 8. Röpke, A. et al. (2003) <i>Hum. Mutat.</i> 21, 100. 9. Eldadah, Z.A. et al. (2001) <i>Hum. Mol. Genet.</i> 10, 163-169. 10. Santagata, S. et al. (2004) <i>Cancer Res.</i> 64, 6854-6857.	

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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