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# Jagged1 (28H8) Rabbit mAb


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

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:50
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Jagged1 (28H8) Rabbit mAb detects endogenous levels of total Jagged1 protein. It does not cross-react with Jagged2.	
<b>Species predicted to react based on 100% sequence homology:</b>	Rat	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu1140 (intracellular region) of human Jagged1.	
<b>Background</b>	<p>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).</p> <p>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).</p>	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Wilson, A. and Radtke, F. (2006) <i>FEBS Lett.</i> 580, 2860-2868.</li> <li>2. Hansson, E.M. et al. (2004) <i>Semin. Cancer Biol.</i> 14, 320-328.</li> <li>3. Chiba, S. (2006) <i>Stem Cells</i> 24, 2437-2447.</li> <li>4. Bland, C.E. et al. (2003) <i>J. Biol. Chem.</i> 278, 13607-13610.</li> <li>5. Six, E. et al. (2003) <i>Proc. Natl. Acad. Sci. USA</i> 100, 7638-7643.</li> <li>6. LaVoie, M.J. and Selkoe, D.J. (2003) <i>J. Biol. Chem.</i> 278, 34427-34437.</li> <li>7. Li, L. et al. (1997) <i>Nat. Genet.</i> 16, 243-251.</li> <li>8. Röpke, A. et al. (2003) <i>Hum. Mutat.</i> 21, 100.</li> <li>9. Eldadah, Z.A. et al. (2001) <i>Hum. Mol. Genet.</i> 10, 163-169.</li> <li>10. Santagata, S. et al. (2004) <i>Cancer Res</i> 64, 6854-6857.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	

**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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