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# Jagged1 (D4Y1R) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)


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<b>Applications:</b> FC-FP	<b>Reactivity:</b> H M Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P78504	<b>Entrez-Gene Id:</b> 182
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity / Sensitivity</b>	Jagged1 (D4Y1R) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total Jagged1 protein. Based on sequence analyses, this antibody is not predicted to detect Jagged2 protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Rat, Hamster	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1131 of human Jagged1 protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Jagged1 (D4Y1R) XP® Rabbit mAb #70109.	
<b>Background</b>	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).	
<b>Background References</b>	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.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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