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Jagged1 (D4Y1R) XP® Rabbit mAb (Alexa Fluor® 647 Conjugate)


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Applications: FC-FP	Reactivity: H M Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P78504	Entrez-Gene Id: 182
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	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.	
Specificity / Sensitivity	Jagged1 (D4Y1R) XP® Rabbit mAb (Alexa Fluor® 647 Conjugate) recognizes endogenous levels of total Jagged1 protein. Based on sequence analyses, this antibody is not predicted to detect Jagged2 protein.	
Species predicted to react based on 100% sequence homology:	Rat, Hamster	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1131 of human Jagged1 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 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.	
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).	
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.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
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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