

**#2205** Store at -20°C

# Jagged2 (C83A8) Rabbit mAb



100 µl  
 (10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP Endogenous	H	150 kDa	Rabbit IgG**

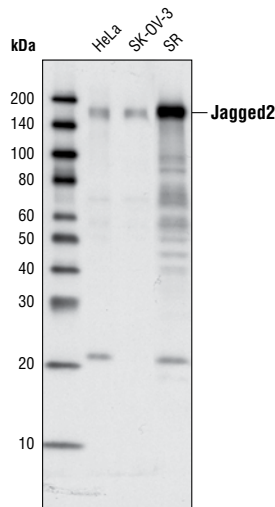
**Background:** Notch signaling is activated upon engagement of the Notch receptor with its ligands, the DSL (Delta, Serrate, Lag2) proteins of single-pass type I membrane proteins. The DSL proteins contain multiple EGF-like repeats and a DSL domain that is required for binding to Notch (1,2). Five DSL proteins have been identified in mammals: Jagged1, Jagged2, Delta-like 1 (Dl1), Dll3 and Dll4 (3). Ligand binding to the Notch receptor results in two sequential proteolytic cleavages of the receptor by the ADAM protease and the  $\gamma$ -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).

**Specificity/Sensitivity:** Jagged2 (C83A8) Rabbit mAb detects endogenous levels of total Jagged2 protein. This antibody does not cross-react with Jagged1.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1212 of human Jagged2.

**Background References:**

- (1) Wilson, A. and Radtke, F. (2006) *FEBS Lett.* 580, 2860–2868.
- (2) Hansson, E.M. et al. (2004) *Semin. Cancer Biol.* 14, 320–328.
- (3) Chiba, S. (2006) *Stem Cells* 24, 2437–2447.
- (4) Bland, C.E. et al. (2003) *J. Biol. Chem.* 278, 13607–13610.
- (5) Six, E. et al. (2003) *Proc. Natl. Acad. Sci. USA* 100, 7638–7643.
- (6) LaVoie, M.J. and Selkoe, D.J. (2003) *J. Biol. Chem.* 278, 34427–34437.



Western blot analysis of total cell lysates from HeLa, SK-OV-3 and SR cells using Jagged2 (C83A8) Rabbit mAb.

**Entrez-Gene ID** #3714  
**Swiss-Prot Acc.** #Q9Y219

**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.

**\*Species cross-reactivity is determined by western blot.**

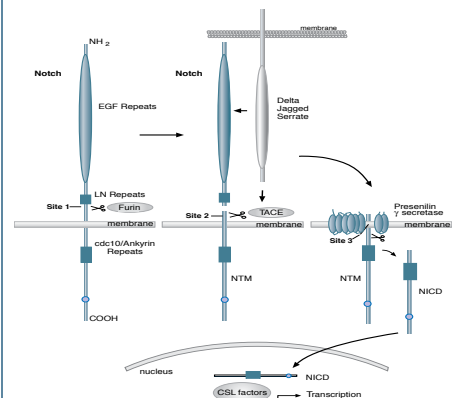
**\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.**

**Recommended Antibody Dilutions:**

Western blotting 1:1000  
 Immunoprecipitation 1:50

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.



**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.