

Notch2 (8A1) 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	230, 300 kDa	Rabbit IgG**

Background: Notch1 is a transmembrane protein functioning in development and the determination of cell-fate (1). During maturation, the notch molecule is cleaved by a furin-like convertase at its extracellular domain (2). Upon binding to a ligand such as Delta1, or upon extracellular calcium depletion, the carboxy-terminal notch1 fragment is released and further cleaved between Gly1743 and Val1744 (3,4). The resulting activated cytosolic fragment translocates to the nucleus where it activates transcription.

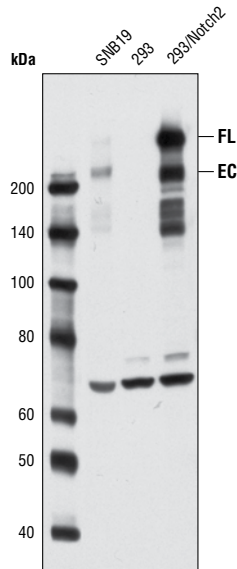
Notch2 is a member of Notch family and mutation in Notch2 is associated with Alagille syndrome (5).

Specificity/Sensitivity: Notch2 (8A1) Rabbit mAb detects endogenous levels of total Notch2 protein.

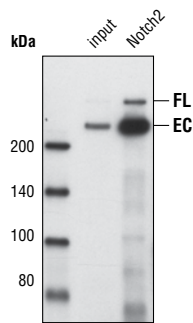
Source/Purification: Monoclonal antibody is produced by immunizing animals with a recombinant protein consisting of the heterodimerization domain of human Notch2.

Background References:

- (1) Artavanis-Tsakonas, S. et al. (1999) *Science* 284, 770–776.
- (2) Chan, Y.M. and Jan, Y.N. (1998) *Cell* 94, 423–426.
- (3) Schroeter, E.H. et al. (1998) *Nature* 393, 382–386.
- (4) Rand, M.D. et al. (2000) *Mol. Cell. Biol.* 20, 1825–1835.
- (5) McDaniel, R. et al. (2006) *Am J Hum Genet* 79, 169–73.



Western blot analysis of extracts from SNB19 and 293 cells, untreated or stably expressing human Notch2, using Notch2 (8A1) Rabbit mAb. The full-length (FL) and the extracellular domain (EC) of Notch2 are indicated.



Immunoprecipitation of endogenous Notch2 from 8MGBA cell lysates using Notch2 (8A1) Rabbit mAb. Lane 1 contains lysate input and lane 2 was immunoprecipitated with Notch2 (8A1) Rabbit mAb. Western blot detection was performed using the same antibody.

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

Entrez-Gene ID #4853
Swiss-Prot Acc. #Q04721

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.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

