


Store at -20C  #2420	Notch2 (8A1) Rabbit mAb	
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	230, 300	Rabbit IgG	#Q04721	4853

#### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
1:50

#### 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.

#### 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

Notch proteins (Notch1-4) are a family of transmembrane receptors that play important roles in development and the determination of cell fate (1). Mature Notch receptors are processed and assembled as heterodimeric proteins, with each dimer composed of a large extracellular ligand-binding domain, a single-pass transmembrane domain, and a smaller cytoplasmic subunit (Notch intracellular domain, NICD) (2). Binding of Notch receptors to ligands of the Delta-Serrate-Lag2 (DSL) family triggers heterodimer dissociation, exposing the receptors to proteolytic cleavages; these result in release of the NICD, which translocates to the nucleus and activates transcription of downstream target genes (3,4).

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

#### Background References

1. Artavanis-Tsakonas, S. et al. (1999) *Science* 284, 770-6.
2. Chan, Y.M. and Jan, Y.N. (1998) *Cell* 94, 423-6.
3. Schroeter, E.H. et al. (1998) *Nature* 393, 382-6.
4. Rand, M.D. et al. (2000) *Mol Cell Biol* 20, 1825-35.
5. McDaniell, R. et al. (2006) *Am J Hum Genet* 79, 169-73.

#### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

#### Western Blot Buffer

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

#### Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation

#### Cross-Reactivity Key

**H:** Human

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