

Notch2 (D67C8) XP[®] Rabbit mAb

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| Applications: W, IP, IF-IC | Reactivity: H R | Sensitivity: Endogenous | MW (kDa): 110, 300 | Source/Isotype: Rabbit IgG | UniProt ID: #Q04721 | Entrez-Gene Id: 4853 |
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:200
1:400

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 (D67C8) XP[®] Rabbit mAb detects endogenous levels of total Notch2 protein. It recognizes both the full-length (~ 300 kDa) and the transmembrane/intracellular region NTM (~110 kDa).

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Val2332 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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **R:** Rat

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