

Product datasheet for **TA300836**

NOTCH1 Rabbit Monoclonal Antibody [Clone ID: EP1238Y]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EP1238Y
Applications:	IF, IHC, WB
Recommended Dilution:	IHC-P: 1:50 - 1:100; FC: 1:10 - 1:100; WB: 1:1000 - 1:10000; ICC/IF: 1:100 - 1:250
Reactivity:	Mouse, Human, Cow (Does not react with: Rat)
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to the Cytoplasmic portion of human Notch1 was used as immunogen.
Formulation:	pH: 7.20Preservative: 0.01% Sodium azideConstituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	notch 1
Database Link:	NP_060087 Entrez Gene 18128 Mouse Entrez Gene 25496 Rat Entrez Gene 4851 Human P46531



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Background:

Notch (hN1, Motch in mouse, Xotch in Xenopus) is a family of large transmembrane receptors involved in cell to cell interactions and cell fate decisions during invertebrate and vertebrate development. A modification of Notch signaling pathway can lead to changes in cellular proliferation, differentiation, and apoptotic events (1). Notch is activated by binding to membrane-bound ligands of the Delta and Serrate/Jagged family. Activated Notch receptor is proteolytically cleaved and the Notch intracellular domain (NICD) is released. The NICD binds to CSL DNA-binding protein and the Mastermind/Lag-3 co-activator in the nucleus which activates target gene expression (2,3). Notch has been implicated in T-cell acute lymphoblastic leukemia (T-ALL) and Multiple Sclerosis (MS). Also, repression of Notch signaling is commonly seen in cancer (4). In mammals, four different Notch receptors has been identified (Notch 1, 2, 3, and 4). Active Notch1 has been linked to inactivation of p53-dependent transactivation by inhibiting the phosphorylation of p53 protein (5).

Synonyms:

AOS5; AOVD1; hN1; TAN1

Note:

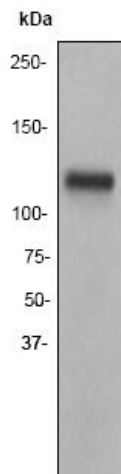
Is unsuitable for IP.

Protein Families:

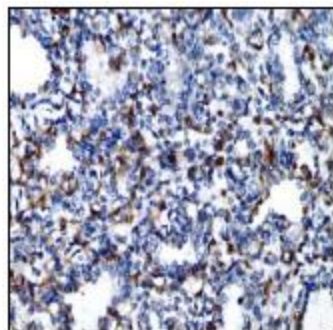
Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway

Protein Pathways:

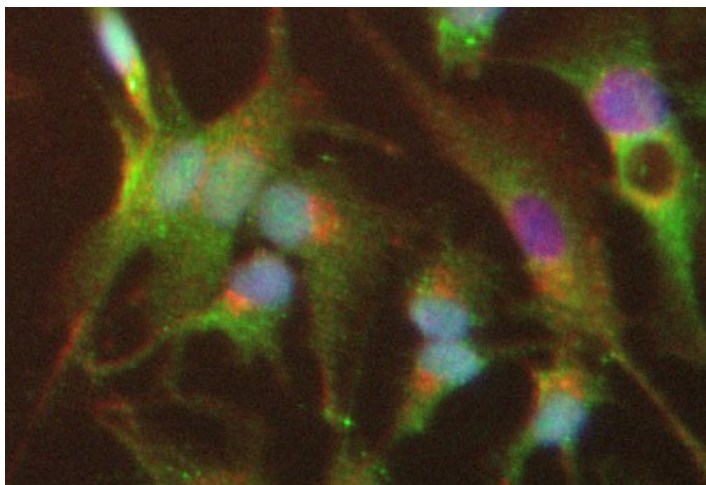
Dorso-ventral axis formation, Notch signaling pathway, Prion diseases

Product images:

Western blot - Notch1 antibody [EP1238Y]; Anti-Notch1 [EP1238Y] antibody at 1/500 dilution + Hek293 cell lysate at 10 ug. Secondary, goat anti-rabbit HRP at 1/2000 dilution. Observed band size : 125 kDa.



Immunohistochemistry (Paraffin-embedded sections) - Notch1 antibody [EP1238Y]; TA300836, at a 1/50 dilution, staining human Notch1 in fetal lung tissue, using Immunohistochemistry, Paraffin embedded tissue.



ICC/IF image of TA300836 stained HepG2 cells. The cells were incubated with the antibody overnight at 4. The secondary antibody (green) was Alexa Fluor 488 goat anti-rabbit IgG (H+L) used at 1:1000 for 1h. Alexa Fluor 594 WGA was used to label plasma membranes (red) at 1:200 for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43uM.