

Product datasheet for **TA321860**

NOTCH1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: HT-29 cells IHC: 50-200 Positive control: Human cervical cancer Predicted cell location: Cytoplasm, Nucleus
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 2541-2555 amino acids of Human notch 1
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	273 kDa
Gene Name:	notch 1
Database Link:	NP_060087 Entrez Gene 25496 Rat Entrez Gene 4851 Human P46531



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Background:

This gene encodes a member of the Notch family. Members of this Type 1 transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple, different domain types. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In *Drosophila*, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands, and may play multiple roles during development.

Synonyms:

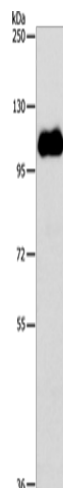
AOS5; AOVD1; hN1; TAN1

Protein Families:

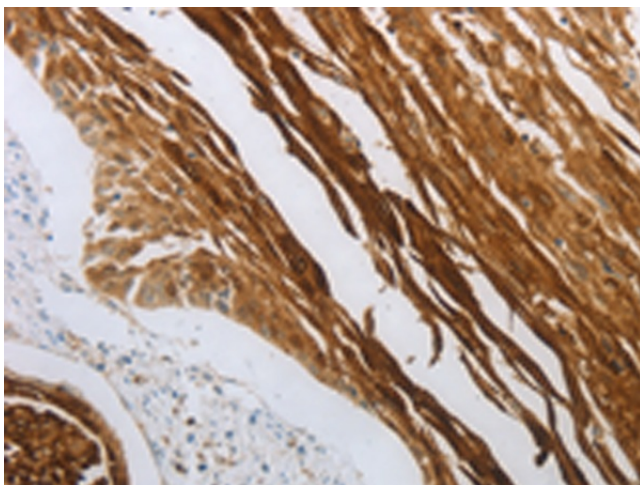
Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway

Protein Pathways:

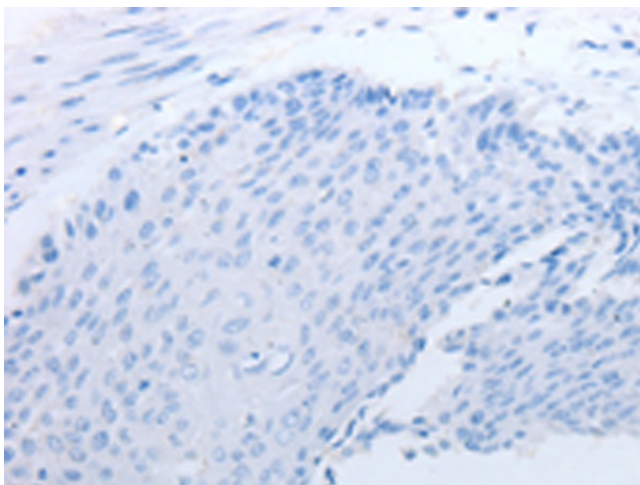
Dorso-ventral axis formation, Notch signaling pathway, Prion diseases

Product images:

Gel: 8%SDS-PAGE
Lysate: 60 µg
Lane: HT29 cells
Primary antibody: TA321860 (NOTCH1 Antibody)
at dilution 1/600
Secondary antibody: Goat anti rabbit IgG at
1/8000 dilution
Exposure time: 7 seconds



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA321860 (NOTCH1 Antibody) at dilution 1/40 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA321860 (NOTCH1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: $\times 200$)