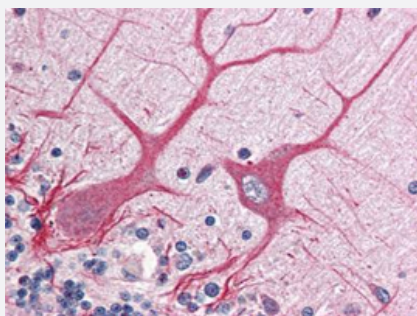


NOTCH1 polyclonal antibody

Catalog # PAB10292 Size 200 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining with NOTCH1 polyclonal antibody (Cat # PAB10292) was diluted 1 : 500 to detect NOTCH 1 in human brain cerebellum tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NOTCH1.
Immunogen	A synthetic peptide corresponding to amino acids 2488-2502 of human NOTCH1.
Sequence	CQHSYSSPVDNTPSHQ
Host	Rabbit
Reactivity	Human
Specificity	This antiserum is directed against human NOTCH 1. No reaction is detected against NOTCH 2. No reactivity was observed against Mouse Notch.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:20000-1:100000) Western Blot (1:2000-1:10000) Immunohistochemistry (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — NOTCH1

Entrez GeneID[4851](#)**Protein Accession#**[P46531 \(human\)](#)**Gene Name**

NOTCH1

Gene Alias

TAN1, hN1

Gene Description

Notch homolog 1, translocation-associated (Drosophila)

Omim ID[109730 190198](#)**Gene Ontology**[Hyperlink](#)

Gene Summary

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 homologue 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. [provided by RefSeq]

Other Designations

OTTHUMP00000022594|neurogenic locus notch homolog protein 1|notch1|translocation-associated notch protein TAN-1

Publication Reference

- [Notch-1 and Notch-2 exhibit unique patterns of expression in human B-lineage cells.](#)

Bertrand FE, Eckfeldt CE, Lysholm AS, LeBien TW.

Leukemia 2000 Dec; 14(12):2095.

Application: Flow Cyt, WB, Human Mouse , Leukemic B lineage cells

Pathway

- [Dorso-ventral axis formation](#)
- [Notch signaling pathway](#)
- [Prion diseases](#)

Disease

- [Alzheimer disease](#)
- [Birth Weight](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)

- [Kidney Failure](#)
- [Leukemia](#)
- [Lymphoma](#)
- [Multiple Myeloma](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Precursor T-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Schizophrenia](#)