

NOTCH1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6218a**Specification**

NOTCH1 Antibody (C-term) - Product Information

Application	IHC-P,E
Primary Accession	P46531
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

NOTCH1 Antibody (C-term) - Additional Information**Gene ID** 4851**Other Names**

Neurogenic locus notch homolog protein 1, Notch 1, hN1, Translocation-associated notch protein TAN-1, Notch 1 extracellular truncation, NEXT, Notch 1 intracellular domain, NICD, NOTCH1, TAN1

Target/Specificity

This NOTCH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human NOTCH1.

Dilution

IHC-P~1:50~100

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NOTCH1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

NOTCH1 Antibody (C-term) - Protein Information**Name** NOTCH1**Synonyms** TAN1

Function Functions as a receptor for membrane-bound ligands Jagged-1 (JAG1), Jagged-2 (JAG2) and Delta-1 (DLL1) to regulate cell-fate determination. Upon ligand activation through the released

notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. Involved in the maturation of both CD4(+) and CD8(+) cells in the thymus. Important for follicular differentiation and possibly cell fate selection within the follicle. During cerebellar development, functions as a receptor for neuronal DNER and is involved in the differentiation of Bergmann glia. Represses neuronal and myogenic differentiation. May play an essential role in postimplantation development, probably in some aspect of cell specification and/or differentiation. May be involved in mesoderm development, somite formation and neurogenesis. May enhance HIF1A function by sequestering HIF1AN away from HIF1A. Required for the THBS4 function in regulating protective astrocytosis from the subventricular zone (SVZ) niche after injury. Involved in determination of left/right symmetry by modulating the balance between motile and immotile (sensory) cilia at the left-right organiser (LRO).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q01705}; Single-pass type I membrane protein

Tissue Location

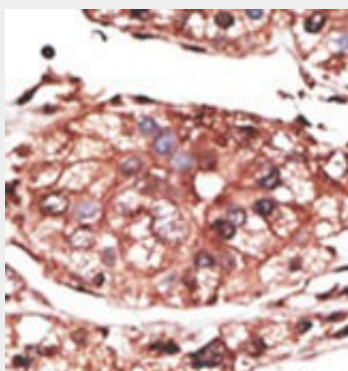
In fetal tissues most abundant in spleen, brain stem and lung. Also present in most adult tissues where it is found mainly in lymphoid tissues

NOTCH1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NOTCH1 Antibody (C-term) - Images



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

NOTCH1 Antibody (C-term) - Background

NOTCH1 functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBP-J kappa and activates genes of the enhancer of split locus. This protein effects the implementation of differentiation, proliferation and apoptotic programs, and may be important for normal lymphocyte function. In altered form, it may contribute to transformation or progression in some T-cell neoplasms. In fetal tissues it is most abundant in spleen, brain stem and lung. NOTCH1 is also present in most adult tissues where it is found mainly in lymphoid tissues. NOTCH1 is synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase in the trans-Golgi network before it reaches the plasma membrane to yield an active, ligand-accessible form. Cleavage results in a C-terminal fragment N(TM) and a N-terminal fragment N(EC). Following ligand binding, it is cleaved by TNF-alpha converting enzyme (TACE) to yield a membrane-associated intermediate fragment called notch extracellular truncation (NEXT). This fragment is then cleaved by presenilin dependent gamma-secretase to release a notch-derived peptide containing the intracellular domain (NICD) from the membrane NOTCH1 truncation is associated with T-cell acute lymphoblastic leukemia. NOTCH1 contains a putative 5 ANK repeats and 36 EGF-like domains.

NOTCH1 Antibody (C-term) - References

Gray, G.E., et al., Am. J. Pathol. 154(3):785-794 (1999). Matsuno, K., et al., Nat. Genet. 19(1):74-78 (1998). Ellisen, L.W., et al., Cell 66(4):649-661 (1991).

NOTCH1 Antibody (C-term) - Citations

- [The Expression of Notch 1 and Notch 3 in Gallbladder Cancer and Their Clinicopathological Significance.](#)
- [Involvement of microRNA-451 in resistance of the MCF-7 breast cancer cells to chemotherapeutic drug doxorubicin.](#)