

Recombinant Human NOTCH1

Cat. No. NOTCH1-29727TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant fragment of Human Notch1 with proprietary tag at the N terminal;
Predicted MW 37.73 kDa, inclusive of tag.

Species

Human

Source

Wheat Germ

ProteinLength

110 amino acids

Description

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.

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Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	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.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RCSQPGETCLNGGKCEAANGTEACVCGGAFVGPRCQDPNP CLSTPCKNAGTCHV VDRRGVADYACSCALGFSGPLCLTPL DNACLTNPCRNGGTCDLLTLTEYKCRCPP G
Sequence Similarities	Belongs to the NOTCH family.Contains 5 ANK repeats.Contains 36 EGF-like domains.Contains 3 LNR (Lin/Notch) repeats.

GENE INFORMATION

Gene Name	NOTCH1 notch 1 [Homo sapiens]
Official Symbol	NOTCH1
Synonyms	NOTCH1; notch 1; Notch (Drosophila) homolog 1 (translocation associated) , Notch homolog 1, translocation associated (Drosophila) , TAN1; neurogenic locus notch homolog protein 1;

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Gene ID	4851
mRNA Refseq	NM_017617
Protein Refseq	NP_060087
MIM	190198
Uniprot ID	P46531
Chromosome Location	9q34.3
Pathway	A third proteolytic cleavage releases NICD, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Dorso-ventral axis formation, organism-specific biosystem; Dorso-ventral axis formation, conserved biosystem;
Function	calcium ion binding; chromatin DNA binding; core promoter binding; protein binding; receptor activity;