

Recombinant Human NOTCH2

Cat. No. NOTCH2-29660TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Notch 2 with N-terminal proprietary tag. Mol Wt 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 a role in vascular, renal and hepatic development. Two transcript variants encoding different isoforms have been found for

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	this gene.
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Expressed in the brain, heart, kidney, lung, skeletal muscle and liver. Ubiquitously expressed in the embryo.
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	QCRDGYEPCVNEGMCVTYHNGTGYCKCPEGFLGEYCQHRD PCEKNRCQNGGTC VAQAMLGKATCRCASGFTGEDCQYSTS HPCFVSRPCLNGGTCHMLSRDTYEECTC QVG
Sequence Similarities	Belongs to the NOTCH family.Contains 6 ANK repeats.Contains 35 EGF-like domains.Contains 3 LNR (Lin/Notch) repeats.

GENE INFORMATION

Gene Name	NOTCH2 notch 2 [Homo sapiens]
Official Symbol	NOTCH2
Synonyms	NOTCH2; notch 2; Notch (Drosophila) homolog 2 , Notch homolog 2 (Drosophila); neurogenic locus notch homolog protein 2;

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Gene ID	4853
mRNA Refseq	NM_001200001
Protein Refseq	NP_001186930
MIM	600275
Uniprot ID	Q04721
Chromosome Location	1p13-p11
Pathway	A third proteolytic cleavage releases NICD, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Dorso-ventral axis formation, organism-specific biosystem; Dorso-ventral axis formation, conserved biosystem; Gene Expression, organism-specific biosystem;
Function	calcium ion binding; ligand-regulated transcription factor activity; protein binding; receptor activity;

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