

Recombinant Human NOTCH3

Cat. No. NOTCH3-29729TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human NOTCH3 with N terminal proprietary tag, 37.73kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	This gene encodes the third discovered human homologue of the Drosophila melanogaster type I membrane protein notch. In Drosophila, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signalling pathway that plays a key role in neural development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remains to be determined. Mutations in NOTCH3 have been identified as the underlying cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL).
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Ubiquitously expressed in fetal and adult tissues.
Form	Liquid
Purity	Proprietary Purification

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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	SPCANGGRCTQLPSREAACLPPGWVGERCQLEDPCCHSGP CAGRGVCQSSVVA GTARFSCRCPRGFRGPDCSLPDPCL SSPCAHGARCSVGPDGRFLCSCPPGYQGR SCR
Sequence Similarities	Belongs to the NOTCH family.Contains 5 ANK repeats.Contains 34 EGF-like domains.Contains 3 LNR (Lin/Notch) repeats.
GENE INFORMATION	
Gene Name	NOTCH3 notch 3 [Homo sapiens]
Official Symbol	NOTCH3
Synonyms	NOTCH3; notch 3; CADASIL, Notch (Drosophila) homolog 3 , Notch homolog 3 (Drosophila); neurogenic locus notch homolog protein 3; CASIL;
Gene ID	4854
mRNA Refseq	NM_000435
Protein Refseq	NP_000426
MIM	600276
Uniprot ID	Q9UM47

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Chromosome Location	19p13.2-p13.1
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; protein binding; receptor activity;

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