NOTCH3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOTCH3, Polyclonal Antibody
Full Product Name	NOTCH3 Antibody, HRP conjugated
Product Gene Name	anti-NOTCH3 antibody
Product Synonym Names	Neurogenic locus notch homolog protein 3Notch 3; NOTCH3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: NOTCH3 (MBS7051583) HRP Conjugated Antibody: NOTCH3 (MBS7051584)
Molecular Weight	243,631 Da
OMIM	U97669 mRNA
3D Structure	ModBase 3D Structure for Q9UM47
Immunogen	Recombinant human Neurogenic locus notch homolog protein 3 protein (1301-1496AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	HRP
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-7424 / sc-5593
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NOTCH3 antibody	ELISA (EIA)
Related Product Information for anti-NOTCH3 antibody	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 RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs (By similarity).
Other Notes	Small volumes of anti-NOTCH3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NOTCH3 purchase	MBS7051584 is an antibody targeting NOTCH3. Also known as NOTCH3 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOTCH3. It may not necessarily be applicable to this product.

NCBI GI #	134244285
NCBI GeneID	4854
NCBI Accession #	NP_000426.2
UniProt Primary Accession #	Q9UM47
UniProt Secondary Accession #	Q9UEB3; Q9UPL3; Q9Y6L8
UniProt Related Accession #	Q9UM47
GenBank Nucleotide #	NM_000435.2
NCBI Official Full Name	neurogenic locus notch homolog protein 3
NCBI Official Synonym Full Names	notch 3
NCBI Official Symbol	NOTCH3
NCBI Official Synonym Symbols	IMF2; LMNS; CASIL; CADASIL; CADASIL1
UniProt Protein Name	Neurogenic locus notch homolog protein 3
Protein Family	Neurogenic locus notch homolog protein
UniProt Gene Name	NOTCH3
UniProt Synonym Gene Names	Notch 3
UniProt Entry Name	NOTC3_HUMAN
NCBI Protein Information	neurogenic locus notch homolog protein 3
NCBI Summary for NOTCH3	This gene encodes the third discovered human homologue of the Drosophilia melanogaster type I membrane protein notch. In Drosophilia, 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). [provided by RefSeq, Jul 2008]
UniProt Comments for NOTCH3	NOTCH3: 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 RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs. Heterodimer of a C-terminal fragment N(TM) and a N- terminal fragment N(EC) which are probably linked by disulfide bonds. Interacts with MAML1, MAML2 and MAML3 which act as transcriptional coactivators for NOTCH3. Interacts with PSMA1. Interacts with HIF1AN. Ubiquitously expressed in fetal and adult tissues. Belongs to the NOTCH family. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 19p13.2-p13.1 Cellular Component: actin cytoskeleton; cell-cell adherens junction; cytoplasm; cytosol; endoplasmic reticulum membrane; extracellular region; Golgi membrane; nucleoplasm; plasma membrane; receptor complex Molecular Function: protein binding Biological Process: Notch receptor processing; Notch signaling pathway; transcription initiation from RNA polymerase II promoter Disease: Cerebral Arteriopathy, Autosomal Dominant, With Subcortical Infarcts And Leukoencephalopathy; Lateral Meningocele Syndrome; Myofibromatosis, Infantile, 2
Research Articles on NOTCH3	**1.** We present a Polish family with a previously unreported novel mutation in exon 12 c.1851C>C/G of the NOTCH3 gene and varying disease expression. One of the two family members with the confirmed mutation presented with all the main CADASIL symptoms; while, his affected father was nearly asymptomatic.

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