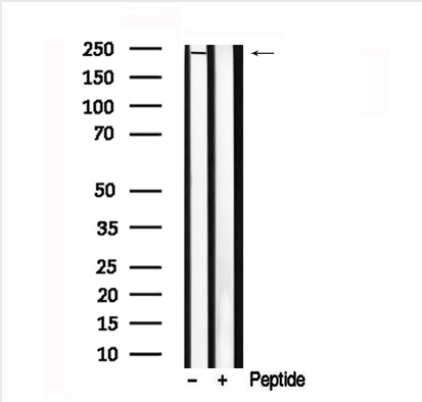
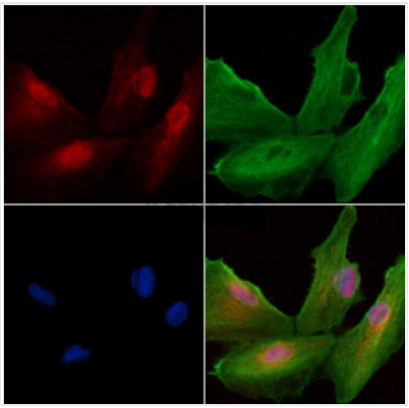
NOTCH3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NOTCH3, Polyclonal Antibody
Full Product Name	NOTCH3 Antibody
Product Gene Name	anti-NOTCH3 antibody
Product Synonym Names	CADASIL; CASIL; NOTC3_HUMAN; Notch 3; Notch 3 intracellular domain; Notch homolog 3; Notch3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20°C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	NOTCH3 peptide (MBS9618557) is used for blocking the activity of NOTCH3 antibody (MBS9610836)
Molecular Weight	244 kDa
OMIM	gene 615293
3D Structure	ModBase 3D Structure for Q9UM47
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human NOTCH3, corresponding to a region within N-terminal amino acids
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NOTCH3 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-NOTCH3 antibody	WB: 1:500-1:2000 IF/ICC 1:100-1:500 The optimal dilutions should be determined by the end user. **IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.
Related Product Information for anti-NOTCH3 antibody	MBS9610836 is an antibody targeting NOTCH3. Also known as NOTCH3 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.



Western Blot (WB) of anti-NOTCH3 antibody
Western blot analysis of NOTCH3 in lysates of K562?, using NOTCH3 Antibody.



Immunofluorescence (IF) of anti-NOTCH3 antibody
(MBS9610836) staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(MBS9610836) and mouse anti-beta tubulin Ab for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary Ab. The nuclear counter stain is DAPI (blue)

ADDITIONAL DETAILS

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

NCBI GI #	322510053
NCBI GeneID	4854
NCBI Accession #	Q9UM47
UniProt Primary Accession #	Q9UM47
UniProt Related Accession #	Q9UM47
NCBI Official Full Name	Neurogenic locus notch homolog protein 3
NCBI Official Synonym Full Names	notch receptor 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: Golgi membrane; nucleoplasm; endoplasmic reticulum membrane; cytoplasm; integral to membrane; plasma membrane; extracellular region; cytosol; receptor complex; actin cytoskeleton Molecular Function: protein binding; enzyme binding; calcium ion binding Biological Process: transcription initiation from RNA polymerase II promoter; Notch signaling pathway; negative regulation of neuron differentiation; regulation of transcription, DNA-dependent; positive regulation of smooth muscle cell proliferation; forebrain development; neuron fate commitment; Notch receptor processing; gene expression Disease: Cerebral Arteriopathy, Autosomal Dominant, With Subcortical Infarcts And Leukoencephalopathy; Lateral Meningocele Syndrome; Myofibromatosis, Infantile, 2
Research Articles on NOTCH3	**1.** Through inhibiting miR-328-5p activity, LINC00210 promoted NOTCH3 expression in nasopharyngeal carcinoma (NPC), leading to activation of NOTCH3 signaling pathway. In conclusion, our study indicates LINC00210 promotes NPC progression through modulating proliferation and invasion.
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