NOTCH3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	NOTCH3, Monoclonal Antibody
Full Product Name	NOTCH3 (Notch Homolog 3 (Drosophila), CADASIL, CASIL) (MaxLight 490)
Product Gene Name	anti-NOTCH3 antibody
Product Synonym Names	Notch Homolog 3 (Drosophila); CADASIL; CASIL
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	200
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes NOTCH3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of produc original vial prior to removing the cap.
Molecular Weight	243,631 Da
OMIM	gene 615293
3D Structure	ModBase 3D Structure for Q9UM47
Immunogen	NOTCH3 (NP_000426, 47aa-156aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SPCANGGRCTQLPSREAACLCPPGWVGERCQLEDPCHSGPCAGRGVCQSSVVAGTARFSCRCPRGFRGPDCSLPDPCLSSPCAHGARCSVGPDGRF
Conjugate	MaxLight490
Product Categories/Family for anti-NOTCH3 antibody	Antibodies; Notch Proteins
Applications Tested/Suitable for anti-NOTCH3 antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-NOTCH3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-NOTCH3 antibody	This gene encodes the third discovered human homologue of the Drosophilia melanogaster type I membrane protein notch. In Drosophilia, notch intera bound ligands (delta, serrate) establishes an intercellular signalling pathway that plays a key role in neural development. Homologues of the notch-ligar identified in human, but precise interactions between these ligands and the human notch homologues remains to be determined. Mutations in NOTCH3 as the underlying cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). [provided by RefSe

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 nece 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
Searchable Terms for NOTCH3 purchase	MBS6207633 is an antibody targeting NOTCH3. Also known as NOTCH3 (Notch Homolog 3 (Drosophila), CADASIL, CASIL) (MaxLight 490). Host: Mo

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
UniProt Primary Accession #	Q9UM47
UniProt Secondary Accession #	Q9UEB3; Q9UPL3; Q9Y6L8
UniProt Related Accession #	Q9UM47
GenBank Nucleotide #	NM_000435
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; CASIL; CADASIL
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; Notch homolog 3

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
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