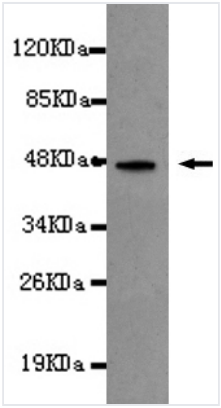
NOTCH1 Antibody

PRODUCT OVERVIEW

Product Name	NOTCH1, Antibody
Full Product Name	NOTCH1 Antibody
Product Gene Name	anti-NOTCH1 antibody
Product Synonym Names	Mouse monoclonal IgG to NOTCH1
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Protein G-Sepharose affinity purified
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	272,505 Da
OMIM	109730
3D Structure	ModBase 3D Structure for P46531
Immunogen	Recombinant fragment of human NOTCH1 (N-terminus).
Preservative	0.02% Sodium Azide and 50% glycerol, 1% BSA, PBS, pH7.4.
Cellular Localization	Cell Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NOTCH1 antibody	ELSIA (EIA), Western Blot (WB)
Application Notes for anti-NOTCH1 antibody	ELISA: 1:5000-1:20000 WB: 1:100-1:2000
Related Product Information for anti-NOTCH1 antibody	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.
Other Notes	Small volumes of anti-NOTCH1 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 NOTCH1 purchase	MBS8526878 is an antibody targeting NOTCH1. Also known as NOTCH1 Antibody. Reactive in Human.



Testing Data of anti-NOTCH1 antibody
NOTCH1 (N-terminus) antibody at 1/2000 dilution + recombinant immunogen with a DsbA tag. Predicted band size: 46KDa. Observed band size: 46KDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOTCH1. It may not necessarily be applicable to this product.

NCBI GI #	148833508
NCBI GeneID	4851
NCBI Accession #	NP_060087.3
UniProt Primary Accession #	P46531
UniProt Secondary Accession #	Q59ED8; Q5SXM3
UniProt Related Accession #	P46531
GenBank Nucleotide #	NM_017617
NCBI Official Full Name	neurogenic locus notch homolog protein 1 preproprotein
NCBI Official Synonym Full Names	notch 1
NCBI Official Symbol	NOTCH1
NCBI Official Synonym Symbols	hN1; AOS5; TAN1; AOVD1
UniProt Protein Name	Neurogenic locus notch homolog protein 1
UniProt Synonym Protein Names	Translocation-associated notch protein TAN-1
Protein Family	Neurogenic locus notch homolog protein
UniProt Gene Name	NOTCH1
UniProt Synonym Gene Names	TAN1; Notch 1; hN1; NEXT; NICD
NCBI Protein Information	neurogenic locus notch homolog protein 1
NCBI Summary for NOTCH1	This gene encodes a member of the NOTCH family of proteins. Members of this Type I 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 signaling is an evolutionarily conserved intercellular signaling pathway that regulates interactions between physically adjacent cells through binding of Notch family receptors to their cognate ligands. The encoded preproprotein is proteolytically processed in the trans-Golgi network to generate two polypeptide chains that heterodimerize to form the mature cell-surface receptor. This receptor plays a role in the development of numerous cell and tissue types. Mutations in this gene are associated with aortic valve disease, Adams-Oliver syndrome, T-cell acute lymphoblastic leukemia, chronic lymphocytic leukemia, and head and neck squamous cell carcinoma. [provided by RefSeq, Jan 2016]

UniProt Comments for NOTCH1	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. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. Involved in the maturation of both CD4+ and CD8+ cells in the thymus. Important for follicular differentiation and possibly cell fate selection within the follicle. During cerebellar development, functions as a receptor for neuronal DNER and is involved in the differentiation of Bergmann glia. Represses neuronal and myogenic differentiation. May play an essential role in postimplantation development, probably in some aspect of cell specification and/or differentiation. May be involved in mesoderm development, somite formation and neurogenesis. May enhance HIF1A function by sequestering HIF1AN away from HIF1A. Required for the THBS4 function in regulating protective astrogenesis from the subventricular zone (SVZ) niche after injury. Involved in determination of left/right symmetry by modulating the balance between motile and immotile (sensory) cilia at the left-right organiser (LRO).
Research Articles on NOTCH1	**1.** This study indicates that NOTCH1 acts as an oncogene and that the NOTCH1 mutation (p.A465T) in the ligand-binding region causes the loss of tumorigenicity by downregulating the NOTCH1 pathway
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-antibody/notch1/8526878