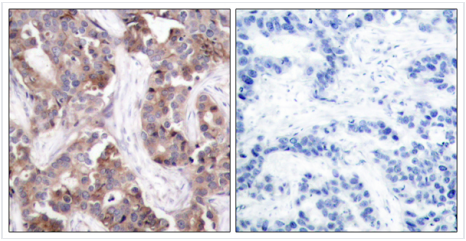
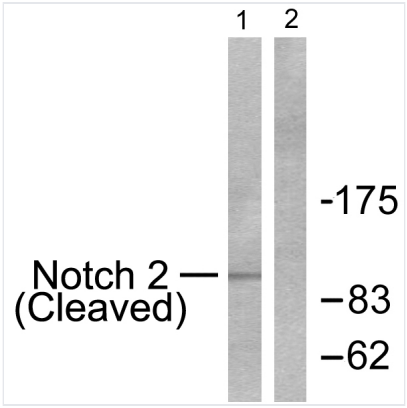
Notch 2 (NOTCH2) Antibody

PRODUCT OVERVIEW

Product Name	Notch 2 (NOTCH2), Antibody
Full Product Name	Notch 2 (Cleaved-Asp1733) Antibody
Product Gene Name	anti-NOTCH2 antibody
Product Synonym Names	Motch B; NOTC2; NOTCH2; NTC2; Neurogenic locus notch homolog protein 2 precursor; hN2
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	Notch 2 (cleaved-Asp1733) antibody detects endogenous levels of fragment of activated Notch 2 resulting from cleavage adjacent to Asp1733.
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	265,405 Da
OMIM	102500
3D Structure	ModBase 3D Structure for Q04721
Immunogen	The antiserum was produced against synthesized peptide derived from human Notch 2.
All Sites	Human: Asp1733 Mouse: Asp1732 Rat: Asp1733
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NOTCH2 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-NOTCH2 antibody	WB: 1:300~1:1000 IHC: 1:50~1:100 ELISA: 1:40000
Related Product Information for anti-NOTCH2 antibody	MBS855201 is an antibody targeting NOTCH2. Also known as Notch 2 (Cleaved-Asp1733) Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-NOTCH2 antibody	R. Agarwal, Invest. Ophthalmol. Vis. Sci., May 2003; 44: 3340. Kohshi Ohishi, Blood, May 2000; 95: 2847-2854. T. Hayashi, J Androl, Nov 2001; 22: 999. TA Mitsiadis, J. Cell Biol., Jul 1995; 130: 407.
Other Notes	Small volumes of anti-NOTCH2 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.



Immunohistochemistry (IHC) of anti-NOTCH2 antibody
Cl-peptide-+ Immunohistochemical analysis of paraffin-embedded human brain tissue using Notch 2 (cleaved-Asp1733) antibody.



Western Blot (WB) of anti-NOTCH2 antibody
Western blot analysis of extracts from 293 cells treated with TNF-a (20ng/ml, 30mins), using Notch 2 (cleaved-Asp1733) antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOTCH2. It may not necessarily be applicable to this product.

NCBI GI #	317008611
NCBI GeneID	4853
NCBI Accession #	NP_001186930.1
UniProt Primary Accession #	Q04721
UniProt Secondary Accession #	Q5T3X7; Q99734; Q9H240
UniProt Related Accession #	Q04721
GenBank Nucleotide #	NM_001200001.1
NCBI Official Full Name	neurogenic locus notch homolog protein 2 isoform 2
NCBI Official Synonym Full Names	notch 2
NCBI Official Symbol	NOTCH2
NCBI Official Synonym Symbols	hN2; AGS2; HJCYS
UniProt Protein Name	Neurogenic locus notch homolog protein 2
Protein Family	Neurogenic locus notch homolog protein
UniProt Gene Name	NOTCH2
UniProt Synonym Gene Names	N2ICD
NCBI Protein Information	neurogenic locus notch homolog protein 2
NCBI Summary for NOTCH2	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. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In Drosophilia, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands, and may play a role in vascular, renal and hepatic development. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]

UniProt Comments for NOTCH2	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 bone remodeling and homeostasis. In collaboration with RELA/p65 enhances NFATc1 promoter activity and positively regulates RANKL-induced osteoclast differentiation (PubMed:29149593). Positively regulates self-renewal of liver cancer cells (PubMed:25985737).
Research Articles on NOTCH2	**1.** Notch2 is important in Club cell differentiation in normal lungs and adenocarcinoma. Notch2 is regulated mutually with Notch1, and the balance of the expression of Notch receptors could determine the biological behaviours of lung cancer cells.
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