

Mouse anti-Human NOTCH3 Monoclonal Antibody | anti-NOTCH3 antibody

NOTCH3 Antibody (C-term Q2306)

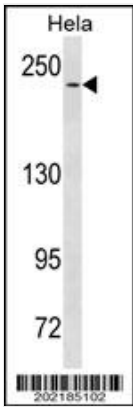
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283547	Mouse	Human	ELISA, Western Blot

PRODUCT SYNONYMS

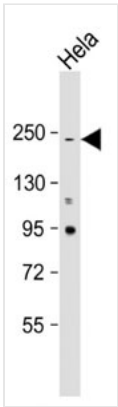
NOTCH3; Monoclonal Antibody; NOTCH3 Antibody (C-term Q2306); Neurogenic locus notch homolog protein 3; Notch 3; Notch 3 extracellular truncation; Notch 3 intracellular domain; anti-NOTCH3 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	487CT6.9.2
Specificity	This NOTCH3 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 2291-2321 amino acids from the C-terminal region of human NOTCH3.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Positions	2291-2321
Sequence Length	2321
Applicable Applications for anti-NOTCH3 antibody	ELISA, WB (Western Blot)
Function	Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination (PubMed:15350543). 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).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Ubiquitously expressed in fetal and adult tissues protein notch. In Drosophila, 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).
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
NOTCH3 Antibody (Q2306) western blot analysis in HeLa cell line lysates (35ug/lane). This demonstrates the NOTCH3 antibody detected the NOTCH3 protein (arrow).



WB (Western Blot)
Anti-NOTCH3 Antibody at 1:2000 dilution + HeLa whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 250 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-NOTCH3 antibody	This gene encodes the third discovered human homologue of the Drosophila melanogaster type I membrane protein notch. In Drosophila, 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].
Product Categories/Family for anti-NOTCH3 antibody	Cardiovascular; Neuroscience; Signal Transduction
References	Liu, H., et al. Circ. Res. 107(7):860-870(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Menon, S., et al. Cephalalgia (2010) In press : Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) : Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	134244285
NCBI GeneID	4854
NCBI Accession #	NP_000426.2
NCBI GenBank Nucleotide #	NM_000435.2
UniProt Accession #	Q9UM47; Q9UEB3; Q9UPL3; Q9Y6L8
Molecular Weight	243631
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

NCBI Protein Information	neurogenic locus notch homolog protein 3
UniProt Protein Name	Neurogenic locus notch homolog protein 3
UniProt Gene Name	NOTCH3
UniProt Synonym Gene Names	Notch 3
UniProt Entry Name	NOTC3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/notch3-antibody-clone-487ct6-9-2-western-blot-elisa/283547>