

Rabbit NOTCH3 Antibody | anti-NOTCH3 antibody

NOTCH3 Antibody

CATALOG # AAA266858	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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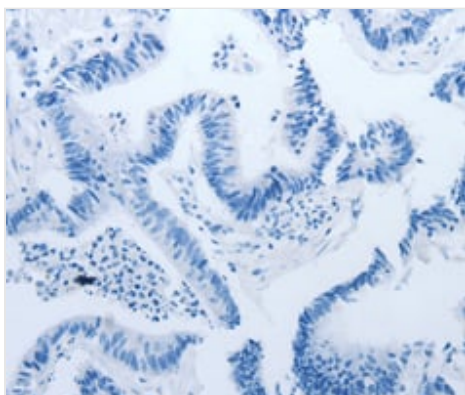
PRODUCT SYNONYMS

NOTCH3; NOTCH3 Antibody; CASIL; CADASIL; anti-NOTCH3 antibody

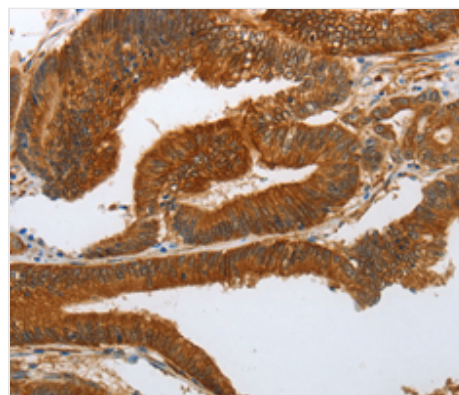
PRODUCT SPECIFICATIONS

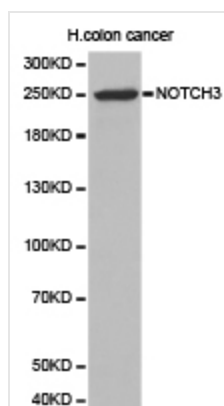
Host	Rabbit
Reactivity	Human, Mouse, Rat
Isotype	IgG
Purity/Purification	Affinity purification
Sequence Length	2321
Applicable Applications for anti-NOTCH3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human NOTCH3
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Preparation and Storage	Store at -20 degree C or -80 degree C. Avoid freeze/thaw cycles.

IMAGES


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon cancer tissue using NOTCH3 antibody.


Application Data



WB (Western Blot)

Western blot analysis of extracts of human colon cancer tissue lysate, using NOTCH3 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NOTCH3 antibody	Notch proteins (Notch1-4) are a family of transmembrane receptors that play important roles in development and the determination of cell fate (1). Mature Notch receptors are processed and assembled as heterodimeric proteins, with each dimer comprised of a large extracellular ligand-binding domain, a single-pass transmembrane domain, and a smaller cytoplasmic subunit (Notch intracellular domain, NICD) (2). Binding of Notch receptors to ligands of the Delta-Serrate-Lag2 (DSL) family triggers heterodimer dissociation, exposing the receptors to proteolytic cleavages; these result in release of the NICD, which translocates to the nucleus and activates transcription of downstream target genes (3-4). Notch3 is a member of the Notch family and is processed similar to Notch1 (5). It is expressed primarily in arterial smooth muscle cells (SMC). Mutations altering the number of cysteine residues in the Notch3 extracellular region are associated with cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL), a hereditary angiopathy leading to strokes and dementia in adults (6-8). Recent studies indicate that Notch3 is overexpressed in many types of cancer (9-11).
Product Categories/Family for anti-NOTCH3 antibody	Autophagy antibody ; Cancer ; Cardiovascular ; Cell Biology ; Epigenetics & Nuclear Signaling ; Developmental Biologys ; Immunology ; Drug Discovery Products ; Metabolism ; Neuroscience ; Signal Transduction ; Stem Cells
References	1. Artavanis-Tsakonas, S. et al. (1999) Science 284, 770-6. 2. Chan, Y.M. and Jan, Y.N. (1998) Cell 94, 423-6. 3. Schroeter, E.H. et al. (1998) Nature 393, 382-6. 4. Rand, M.D. et al. (2000) Mol Cell Biol 20, 1825-35. 5. Baron, M. (2003) Semin Cell Dev Biol 14, 113-9. 6. Kalimo, H. et al. (2002) Brain Pathol 12, 371-84. 7. Karlström, H. et al. (2002) Proc Natl Acad Sci U S A 99, 17119-24. 8. Monet, M. et al. (2007) Hum Mol Genet 16, 982-92. 9. Park, J.T. et al. (2006) Cancer Res 66, 6312-8. 10. Gramantieri, L. et al. (2007) Liver Int 27, 997-1007. 11. Yamaguchi, N. et al. (2008) Cancer Res 68, 1881-8.

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	244kDa
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; LMNS; CASIL; CADASIL; CADASIL1
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

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/rabbit-human-mouse-rat-antibody/notch3/266858>