

Rabbit NCSTN Polyclonal Antibody | anti-NCSTN antibody

NCSTN Antibody

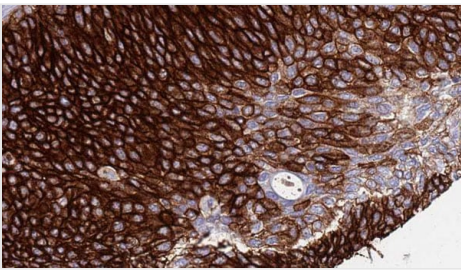
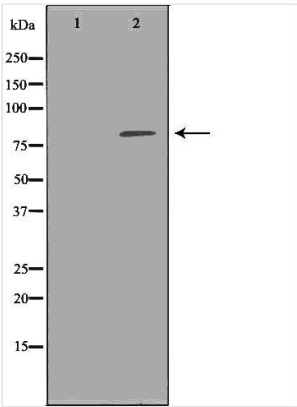
CATALOG # AAA326023	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

NCSTN; Polyclonal Antibody; NCSTN Antibody; Anterior pharynx defective 2; APH 2; APH2; ATAG1874; KIAA0253; Ncstn; NCT; NICA_HUMAN; Nicastrin; RP11 517F10.1; RP11517F101; anti-NCSTN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NCSTN antibody detects endogenous levels of total NCSTN
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	689
Applicable Applications for anti-NCSTN antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NCSTN
Subcellular Location	Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Tissue Specificity	Detected in brain (at protein level) (PubMed:10993067). Widely expressed (PubMed:11396676).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (83%), Bovine (83%), Horse (83%), Sheep (83%), Rabbit (100%), Dog (83%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326023 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of brain using NCSTN antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NCSTN antibody

Description: Nicastrin is a transmembrane glycoprotein serving as an essential component of the gamma-secretase complex (1, 2). Nicastrin is physically associated with presenilin and plays an important role in the stabilization and correct localization of presenilin to the membrane-bound gamma-secretase complex (3). Nicastrin also serves as a docking site for gamma-secretase substrates such as APP and Notch, directly binding to them and properly presenting them to gamma-secretase to ensure the correct cleavage process (2, 4).

Function: Essential subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid-beta precursor protein) (PubMed:10993067, PubMed:12679784, PubMed:25043039, PubMed:26280335). The gamma-secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels.

Subunit Structure: Component of the gamma-secretase complex (PubMed:10993067). The functional gamma-secretase complex is composed of at least four polypeptides: a presenilin homodimer (PSEN1 or PSEN2), nicastrin (NCSTN), APH1 (APH1A or APH1B) and PEN2 (PubMed:12740439, PubMed:25043039, PubMed:26623517, PubMed:26280335, PubMed:25918421). Binds to proteolytic processed C-terminal fragments C83 and C99 of the amyloid precursor protein (APP) (PubMed:10993067). Interacts with PSEN1 and PSEN2 (PubMed:10993067).

Post-translational Modifications: N-glycosylated.

Similarity: Belongs to the nicastrin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	589269130
NCBI GeneID	23385
NCBI Accession #	NP_001277113.1
NCBI GenBank Nucleotide #	NM_001290184.1
UniProt Accession #	Q92542; Q5T207; Q5T208; Q86VV5
Molecular Weight	Observed: 77 kDa Predicted: 79 kDa
NCBI Official Full Name	nicastrin isoform 2
NCBI Official Synonym Full Names	nicastrin
NCBI Official Symbol	NCSTN
NCBI Official Synonym Symbols	ATAG1874
NCBI Protein Information	nicastrin

UniProt Protein Name	Nicastrin
UniProt Gene Name	NCSTN
UniProt Synonym Gene Names	KIAA0253

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ncstn-antibody-immunohistochemistry-western-blot-elisa/326023>