

## Rabbit Anti-NCSTN Polyclonal Antibody

CPB-110RH Rabbit(NCSTN)

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Anti-NCSTN Polyclonal Antibody
<b>Antigen Description</b>	Nicastrin, also known as NCSTN, is a single-pass type I membrane protein which belongs to the nicastrin family. Nicastrin was named after the Italian village Nicaastro, reflecting the fact that Alzheimer's disease was described in 1963 after studying descendants of an extended family originating in the village of Nicaastro that had Familial Alzheimer's Disease (FAD). Nicastrin is a protein that is part of the gamma secretase protein complex, which is one of the proteases involved in processing amyloid precursor protein (APP) to the short Alzheimer's disease-associated peptide amyloid beta. Nicastrin may represent a stabilizing cofactor required for the assembly of the gamma-secretase complex. The other proteins in the complex are presenilin, which is the catalytically active component of the complex, APH-1, and PEN-2. Nicastrin itself is not catalytically active, but instead promotes the maturation and proper trafficking of the other proteins in the complex, all of which undergo significant post-translational modification before becoming active in the cell. Nicastrin has also been identified as a regulator of neprilysin, an enzyme involved in the degradation of amyloid beta fragment.
<b>specificity</b>	Human Nicastrin / NCSTN.
<b>Target</b>	NCSTN
<b>Immunogen</b>	Recombinant human NCSTN protein.
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Species</b>	Human
<b>conjugation</b>	N/A
<b>Applications</b>	N/A
<b>Preparation</b>	Produced in rabbits immunized with purified, human cell-derived, recombinant human Nicastrin / NCSTN extracellular domain (Met 1-Glu 669). Total IgG was purified by Protein A affinity chromatography.

### PACKAGING

<b>Format</b>	0.2 µm filtered solution in PBS with 5% trehalose.
<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. Preservative -Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

### ANTIGEN GENE INFORMATION

<b>Gene Name</b>	<a href="#">NCSTN nicastrin [ Homo sapiens ]</a>
<b>Official Symbol</b>	NCSTN
<b>Synonyms</b>	NCSTN; nicastrin; APH2; KIAA0253; ATAG1874; anterior pharynx-defective 2; RP11-517F10.1;
<b>GeneID</b>	<a href="#">23385</a>

---

<b>mRNA Refseq</b>	<a href="#">NM_015331</a>
<b>Protein Refseq</b>	<a href="#">NP_056146</a>
<b>MIM</b>	<a href="#">605254</a>
<b>UniProt ID</b>	Q92542
<b>Chromosome Location</b>	1q22-q23
<b>Pathway</b>	Activated NOTCH1 Transmits Signal to the Nucleus, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; NRIF signals cell death from the nucleus, organism-specific biosystem; Notch signaling pathway, organism-specific biosystem;
<b>Function</b>	aspartic-type endopeptidase activity; endopeptidase activity; peptidase activity; protein binding;