Rabbit Monoclonal Antibody to Human Nicastrin

Cat. No. CAB11585RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Nicastrin
Species	Human
Source	Rabbit
Antigen Description	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 Nicastro, reflecting the fact that Alzheimers disease was described in 1963 after studying descendants of an extended family originating in the village of Nicastro that had Familial Alzheimers 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 Alzheimers 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.
Specificity	Human Nicastrin / NCSTN. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

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Immunogen	Recombinant Human Nicastrin / NCSTN Protein
Isotype	Rabbit IgG
Clone	A008
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 μg/mL with the appropriate secondary reagents to detect Human NCSTN in WB. Using a DAB detection system, the detection limit for Human NCSTN is approximately 10 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions.Direct ELISA: This antibody can be used at 0.1-0.2 μg/mL with the appropriate secondary reagents to detect Human NCSTN. The detection limit for Human NCSTN is approximately 0.0049 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human Nicastrin / NCSTN
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 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.

GENE INFORMATION

Gene Name	NCSTN nicastrin [Homo sapiens]
Official Symbol	NCSTN

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Synonyms	NCSTN; nicastrin; APH2; KIAA0253; ATAG1874; anterior pharynx-defective 2; RP11-517F10.1;
Gene ID	23385
mRNA Refseq	NM_015331
Protein Refseq	NP_056146
MIM	605254
UniProt ID	Q92542
Chromosome Location	1q22-q23
Pathway	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;
Function	aspartic-type endopeptidase activity; endopeptidase activity; peptidase activity; protein binding;

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