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Rabbit Anti-Nicastrin antibody

SL6058R

Product Name:	Nicastrin
Chinese Name:	老年性痴呆蛋白APH2抗体
Alias:	Anterior pharynx defective 2; APH 2; APH2; ATAG1874; KIAA0253; Ncstn; NCT; NICA_HUMAN; Nicastrin; RP11 517F10.1; RP11517F101.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	75kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Nicastrin:21-120/709<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The Presenilin 1 (PS1) and Presenilin 2 (PS2) transmembrane proteins are components of high molecular weight complexes. These complexes mediate proteolytic cleavage within the transmembrane domain of several proteins, including the ∫-Amyloid precursor protein (∫APP) and Notch. Missense mutations in the genes encoding the Presenilin proteins increase the proteolysis of ∫APP and results in the overproduction of

	the neurotoxic ∫-Amyloid peptide, which results in a condition associated with Familial Alzheimer's disease (FAD). A novel component of the presenilin complex, nicastrin, is a type I transmembrane glycoprotein that is involved in mediating Notch/GLP-1 signaling. In addition, nicastrin contributes to the processing of ∫APP, which makes nicastrin an attractive potential target for modulating the production of ∫-Amyloid in patients with Alzheimer's disease. Originally purified from immunoprecipitated PS1 complexes from HEK293 cells, nicastrin contains hydrophilic amino and carboxy-terminal domains, a short, hydrophobic transmembrane domain and potential N-myristoylation and phosphorylation sites. **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 (beta-amyloid precursor protein). It probably represents a stabilizing cofactor required for the assembly of the gamma-secretase complex. **Subunit:** Belongs to the nicastrin family. **Subcellular Location:** Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. **Tissue Specificity:** Widely expressed. **DISEASE:** Defects in NCSTN are the cause of familial acne inversa type 1 (ACNINV1) [MIM:142690]. A chronic relapsing inflammatory disease of the hair follicles characterized by recurrent draining sinuses, painful skin abscesses, and disfiguring scars. Manifestations typically appear after puberty. **Similarity:** Belongs to the nicastrin family. **SWISS:** Q92542 **Gene ID:** 23385 **Database links:** Entrez Gene: 23385 Human Entrez Gene: 59287 Mouse

	Omim: 605254 Human SwissProt: Q92542 Human SwissProt: P57716 Mouse Unigene: 517249 Human Unigene: 218203 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.