

Nicastrin (NICA) Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP6303a**Specification**

Nicastrin (NICA) Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q92542](#)**Nicastrin (NICA) Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 23385**Other Names**

Nicastrin, NCSTN, KIAA0253

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6303a](/product/products/AP6303a) was selected from the N-term region of human NICA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Nicastrin (NICA) Antibody (N-term) Blocking peptide - Protein Information**Name** NCSTN**Synonyms** KIAA0253**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](http://www.uniprot.org/citations/10993067), PubMed: [12679784](http://www.uniprot.org/citations/12679784), PubMed: [25043039](http://www.uniprot.org/citations/25043039), PubMed: [26280335](http://www.uniprot.org/citations/26280335), PubMed: [30598546](http://www.uniprot.org/citations/30598546), PubMed: [30630874](http://www.uniprot.org/citations/30630874)). 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.

Cellular Location

Membrane; Single-pass type I membrane protein. Cytoplasmic vesicle membrane; Single-pass type I membrane protein. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

Tissue Location

Detected in brain (at protein level) (PubMed:10993067). Widely expressed (PubMed:11396676)

Nicastrin (NICA) Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Nicastrin (NICA) Antibody (N-term) Blocking peptide - Images**Nicastrin (NICA) Antibody (N-term) Blocking peptide - Background**

Nicastrin is a type 1 transmembrane glycoprotein that interacts with both presenilin-1 (PSEN1) and presenilin-2 (PSEN2) and has a central role in presenilin-mediated processing of beta-amyloid precursor protein (beta-APP) and some aspects of NOTCH/glp-1 signaling in vivo.

Nicastrin (NICA) Antibody (N-term) Blocking peptide - References

Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003).Li, J., et al., J. Biol. Chem. 278(35):33445-33449 (2003).Marlow, L., et al., Biochem. Biophys. Res. Commun. 305(3):502-509 (2003).Murphy, M.P., et al., FASEB J. 17(9):1138-1140 (2003).Shirotani, K., et al., J. Biol. Chem. 278(19):16474-16477 (2003).