10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Synthetic peptide
Catalog # BP6303a

Specification

Nicastrin (NICA) Antibody (N-term) Blocking peptide - Product Information

Primary 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 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, PubMed:12679784, PubMed:25043039, PubMed:26280335, PubMed:30598546, PubMed: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).