

NCSTN / Nicastrin Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11421**Specification**

NCSTN / Nicastrin Antibody (C-Terminus) - Product Information

Application	IF, WB, IHC
Primary Accession	O92542
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78kDa KDa

NCSTN / Nicastrin Antibody (C-Terminus) - Additional Information**Gene ID** 23385**Other Names**

Nicastrin, NCSTN, KIAA0253

Target/Specificity

17 amino acid peptide from near the carboxy terminus of human Nicastrin

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

NCSTN / Nicastrin Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

NCSTN / Nicastrin Antibody (C-Terminus) - 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

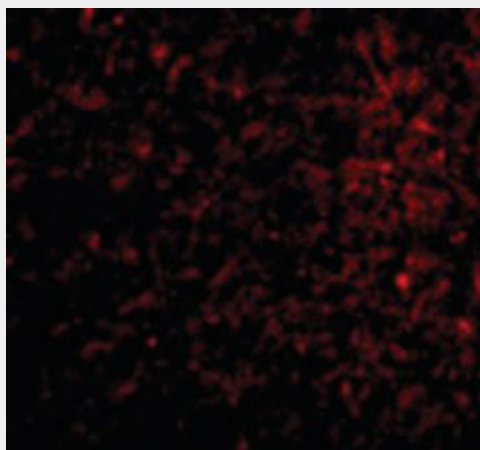
Tissue Location

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

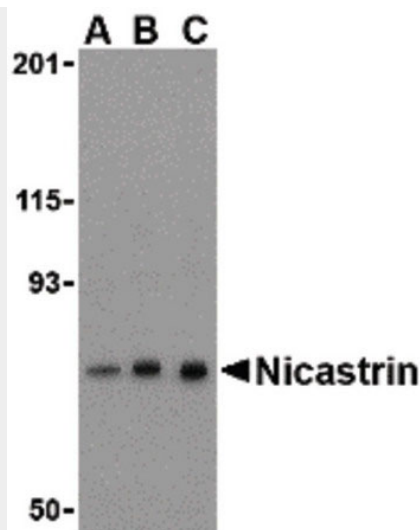
NCSTN / Nicastrin Antibody (C-Terminus) - Protocols

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

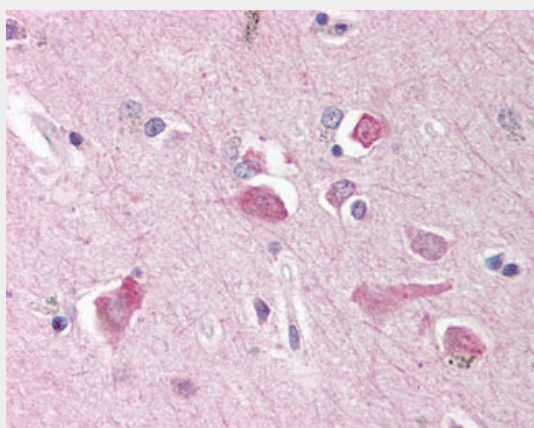
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NCSTN / Nicastrin Antibody (C-Terminus) - Images

Immunofluorescence of Nicastrin in Human Brain cells with Nicastrin antibody at 20 ug/ml.



Western blot of Nicastrin in mouse brain tissue lysate with Nicastrin antibody at (A) 0.5, (B)...



Anti-NCSTN / Nicastrin antibody IHC of human brain, cortex.

NCSTN / Nicastrin Antibody (C-Terminus) - Background

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.

NCSTN / Nicastrin Antibody (C-Terminus) - References

- Yu G.,et al.Nature 407:48-54(2000).
- Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Gregory S.G.,et al.Nature 441:315-321(2006).
- Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.