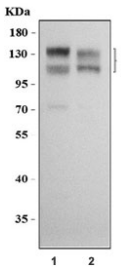
Nicastrin Antibody (R31374)

Catalog No.	Formulation	Size
R31374	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q92542
Applications	Western blot: 0.5-1ug/ml
Limitations	This Nicastrin antibody is available for research use only.



Western blot testing of human 1) 293T and 2) HeLa cell lysate with Nicastrin antibody. Predicted molecular weight ~78 kDa, but can be observed at up to ~160 kDa due to glycosylation.

Description

Nicastrin, also known as NCSTN, is aproteinthat is a part of the gamma secretase protein complex. It is mapped to 1q23.2. This gene is not catalytically active, but instead promotes the maturation and proper trafficking of the other proteins in the gamma secretaseprotein complex, all of which undergo significant post-translational modification before becoming active in the cell. NCSTN encodes a Type I transmembrane glycoprotein that is an integral component of the multimeric gamma-secretase complex. The encoded protein cleaves integral membrane proteins, including Notch receptors and beta-amyloid precursor protein, and may be a stabilizing cofactor required for gamma-secretase complex assembly. The cleavage of beta-amyloid precursor protein yields amyloid beta peptide, the main component of the

neuritic plaque and the hallmark lesion in the brains of patients with Alzheimers disease. Nicastrin has also been identified as a regulator of neprilysin, an enzyme involved in the degradation of amyloid beta fragment.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Nicastrin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human NCSTN (VIHVVEKEEDLQWVLTD) was used as the immunogen for this Nicastrin antibody.

Storage

After reconstitution, the Nicastrin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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