Data Sheet (Cat.No.TMAC-02847)

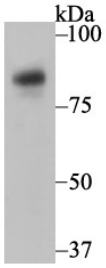
Anti-Nicastrin Antibody (4R415)

Product Details

Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 78 kDa.
Clone:	4R415
Purification:	ProA affinity purified

Applications

Verified Activity: 1. Western blot analysis of Nicastrin on THP-1 cell lysate using anti-Nicastrin antibody at 1/1,000 dilution.



Application:	WB
Recommended	WB: 1:500-1000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized peptide: within Human Nicastrin aa 650-750 (C terminal)
Antigen Species:	human
Uniprot ID:	Q92542
Synonyms:	ATAG1874;APH2;NCSTN;nicastrin;RP11-517F10.1;KIAA0253

Research Background

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 β-Amyloid precursor protein (βAPP) and Notch. Missense mutations in the genes encoding the Presenilin proteins increase the proteolysis of βAPP and results in the overproduction of the neurotoxic β-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 βAPP, which makes nicastrin an attractive potential

target for modulating the production of β-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.

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