Rabbit anti-Mouse Nicastrin Polyclonal Antibody | anti-NCSTN antibody

Anti-Nicastrin Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257244	**Rabbit**	**Mouse**	**Immunoprecipitation, ELISA, Western Blot**

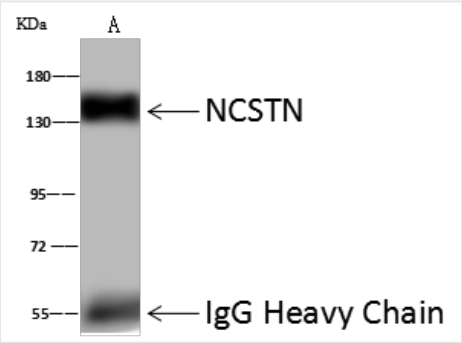
PRODUCT SYNONYMS

Nicastrin; Polyclonal Antibody; Anti-Nicastrin Antibody; Rabbit Polyclonal; Nicastrin/NCSTN Antibody; Rabbit PAb; Antigen Affinity Purified; nicastrin; Anti-9430068N19Rik Antibody; Anti-AA727311 Antibody; Anti-Aph2 Antibody; Anti-D1Dau13e Antibody; Anti-Kiaa0253 Antibody; Anti-mKIAA0253 Antibody; Anti-NCSTN Antibody; Anti-Nct Antibody; anti-NCSTN antibody

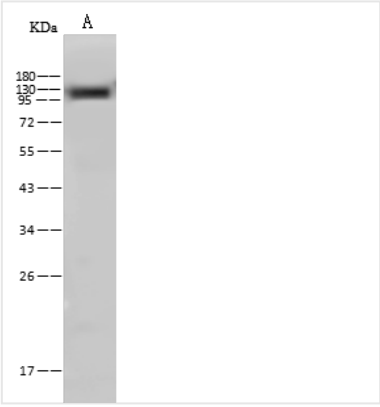
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Nicastrin/NCSTN
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-NCSTN antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse Nicastrin/NCSTN Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse Nicastrin/NCSTN (rM Nicastrin/NCSTN). Nicastrin/NCSTN specific IgG was purified by Mouse Nicastrin/NCSTN affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)
NCSTN was immunoprecipitated using:Lane A:0.5 mg NIH-3T3 Whole Cell Lysate4 uL anti-NCSTN rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G.Primary antibody:Anti-NCSTN rabbit polyclonal antibody,at 1:100 dilutionSecondary antibody:Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilutionDeveloped using the ECL technique.Performed under reducing conditions.Predicted band size: 78 kDaObserved band size :145 kDa



WB (Western Blot)
Anti-NCSTN rabbit polyclonal antibody at 1:500 dilutionLane A: Mouse brain tissue lysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.Developed using the ECL technique.Performed under reducing conditions.Predicted band size:78 kDaObserved band size:130 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-NCSTN antibody	Nicastrin (NCST, or NCT), a single-pass membrane glycoprotein that harbors a large extracellular domain, is an essential component of the gamma-secretase complex. Several lines of evidence indicate that the members of these complexes could also contribute to the control of cell death. NCT controls cell death via phosphoinositide 3-kinase/Akt and p53-dependent pathways and that this function remains independent of the activity and molecular integrity of the gamma-secretase complexes. Increasing pieces of evidence have shown that Nicastrin/NCSTN plays a crucial role in gamma-cleavage of the amyloid precursor protein (APP). The glycoprotein Nicastrin is an essential component of the gamma-secretase complex, a high molecular weight complex that also contains the presenilin proteins, Aph-1 and Pen-2. The gamma-secretase complex is not only involved in APP processing but also in the processing of an increasing number of another type I integral membrane proteins. As the largest subunit of the gamma-secretase complex, Nicastrin plays a crucial role in its activation. Inhibition of NCSTN demonstrated an altered gamma-cleavage activity, suggesting its potential implication in developing Alzheimer's disease (AD). Besides, Nicastrin can function to maintain epithelial to mesenchymal transition during breast cancer progression. Anti-nicastrin polyclonal and monoclonal antibodies were able to decrease notch1 and vimentin expression and reduced the invasive capacity of breast cancer cells in vitro.
References	He G, et al. (2007) Degradation of nicastrin involves both proteasome and lysosome. J Neurochem. 101(4): 982-92.Hayashi I, et al. (2009) Single chain variable fragment against nicastrin inhibits the gamma-secretase activity. J Biol Chem. 284(41): 27838-47.Ma Z, et al. (2009) Association between promoter polymorphisms of the nicastrin gene and sporadic Alzheimer's disease in North Chinese Han population. Neurosci Lett. 458(3): 136-9.Pardossi-Piquard R, et al. (2009) p53-dependent control of cell death by nicastrin: lack of requirement for presenilin-dependent gamma-secretase complex. J Neurochem. 109(1): 225-37.Filipovi? A, et al. (2011) Biological and clinical implications of nicastrin expression in invasive breast cancer. Breast Cancer Res Treat. 125(1): 43-53.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224809376
NCBI GeneID	59287
NCBI Accession #	NP_067620.3
NCBI GenBank Nucleotide #	NM_021607.3
UniProt Accession #	P57716; Q8VE20; E9QLZ6
Molecular Weight	78,492 Da
NCBI Official Full Name	nicastrin
NCBI Official Synonym Full Names	nicastrin

NCBI Official Symbol	Ncstn
NCBI Official Synonym Symbols	Nct; Aph2; AA727311; D1Dau13e; Kiaa0253; mKIAA0253; 9430068N19Rik
NCBI Protein Information	nicastrin
UniProt Protein Name	Nicastrin
UniProt Gene Name	**Ncstn**
UniProt Entry Name	NICA_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://www.aaabiotech.com/polyclonal/nicastrin-antibody-immunoprecipitation-western-blot-elisa/257244