

## Datasheet for ABIN7197196 Nicastrin Protein (NCSTN) (His tag)



Overview	
Quantity:	50 µg
Target:	Nicastrin (NCSTN)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nicastrin protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human Nicastrin/NCSTN Protein (His Tag)
Sequence:	Met 1-Glu 669
Characteristics:	A DNA sequence encoding the human NCSTN (NP_056146.1) extracellular domain (Met 1-Glu 669) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 93 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.
Target Details	
Target:	Nicastrin (NCSTN)
Alternative Name:	Nicastrin/NCSTN (NCSTN Products)
Background:	Background: 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

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	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 evidences 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 which 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 other 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). In addition, 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.
	Synonym: APH2,ATAG1874,KIAA0253,NCSTN,RP11-517F10.1
Molecular Weight:	72.4 kDa
NCBI Accession:	NP_056146
Pathways:	Notch Signaling, Neurotrophin Signaling Pathway
Application Details	
Destrictions:	
Restrictions.	For Research use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

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