

For Research Use Only

Nicastrin Recombinant monoclonal antibody

Catalog Number: 87471-1-RR



Basic Information

Catalog Number: 87471-1-RR	GenBank Accession Number: BC047621	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 23385	CloneNo.: 252886F8
Isotype: IgG	UNIPROT ID: Q92542	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
Immunogen Catalog Number: AG5137	Full Name: nicastrin	
	Calculated MW: 709 aa, 78.4 kDa	
	Observed MW: 110 kDa, 130 kDa	

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HeLa cells, Neuro-2a cells, HEK293-T cells, U87 MG cells, SH-SY5Y cells, Jurkat cells, C6 cells

IF/ICC : C6 cells,

Background Information

Nicastrin (NCT) is a type I transmembrane glycoprotein, which forms high molecular weight gamma-secretase complexes with presenilin 1 and presenilin 2 (PMID: 16096051). The gamma-secretase is an intramembrane protease that cleaves many type I membrane proteins, including amyloid precursor protein (APP) and Notch, generating peptide fragments that are important signaling components (PMID: 16096062). The proteolytic processing of APP results in the release of amyloid- β peptide, a principal component of the plaques found in the brains of Alzheimer's disease patients (PMID: 12716934).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

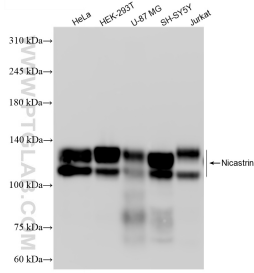
T: 4006900926

E: Proteintech-CN@ptglab.com

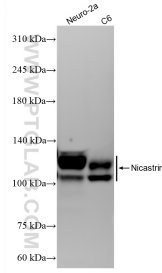
W: ptgcn.com

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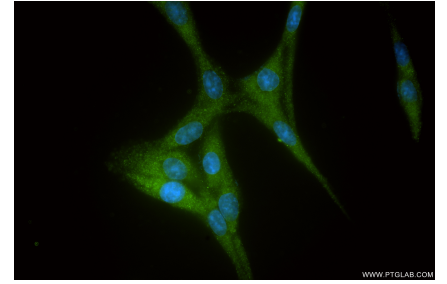
Selected Validation Data



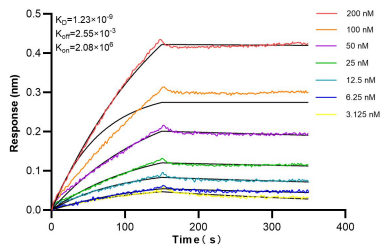
Various lysates were subjected to SDS PAGE followed by western blot with 87471-1-RR (Nicastrin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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Immunofluorescent analysis of (-20°C Methanol) fixed C6 cells using Nicastrin antibody (87471-1-RR, Clone: 252886F8) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 87471-RR against Human Nicastrin were performed. The affinity constant is 1.23 nM.