

For Research Use Only

# Nicastrin Recombinant monoclonal antibody

Catalog Number: 87471-1-RR



## Basic Information

<b>Catalog Number:</b> 87471-1-RR	<b>GenBank Accession Number:</b> BC047621	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23385	<b>CloneNo.:</b> 252886F8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q92542	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> nicastrin	
<b>Immunogen Catalog Number:</b> AG5137	<b>Calculated MW:</b> 709 aa, 78.4 kDa	
	<b>Observed MW:</b> 110 kDa, 130 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> HeLa cells, Neuro-2a cells, HEK293-T cells, U87 MG cells, SH-SY5Y cells, Jurkat cells, C6 cells
	<b>IF/ICC :</b> 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

\*\*\* 20ul sizes contain 0.1% BSA

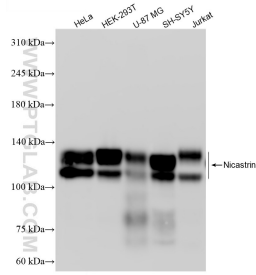
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

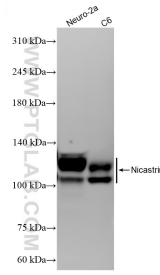
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W: [ptglab.com](http://ptglab.com)

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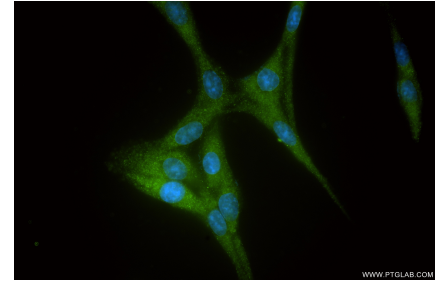
## Selected Validation Data



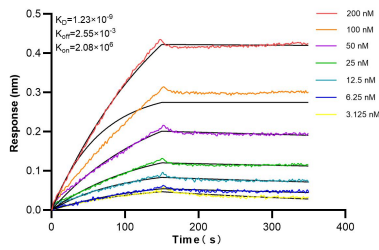
Various lysates were subjected to SDS PAGE followed by western blot with 87471-1-RR (Nicastrin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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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.