

For Research Use Only

# Nicastrin Recombinant monoclonal antibody, PBS Only

Catalog Number: 87471-1-PBS



## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>87471-1-PBS      | <b>GenBank Accession Number:</b><br>BC047621 | <b>Purification Method:</b><br>Protein A purification |
| <b>Source:</b><br>Rabbit                   | <b>GeneID (NCBI):</b><br>23385               | <b>CloneNo.:</b><br>252886F8                          |
| <b>Isotype:</b><br>IgG                     | <b>UNIPROT ID:</b><br>Q92542                 |   |
| <b>Immunogen Catalog Number:</b><br>AG5137 | <b>Full Name:</b><br>nicastrin               |   |
|  | <b>Calculated MW:</b><br>709 aa, 78.4 kDa    |   |
|  | <b>Observed MW:</b><br>110 kDa, 130 kDa      |   |

## Applications

**Tested Applications:**  
WB, IF/ICC, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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- $\beta$  peptide, a principal component of the plaques found in the brains of Alzheimer's disease patients (PMID: 12716934).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

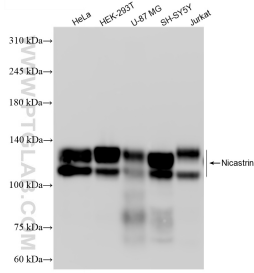
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

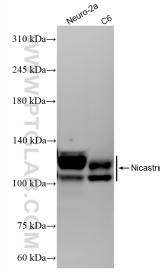
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

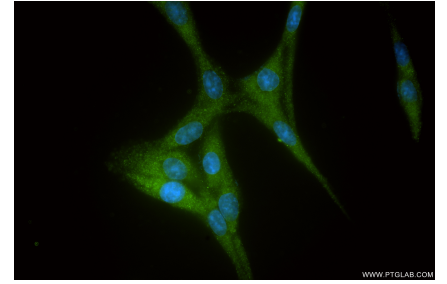
## Selected Validation Data



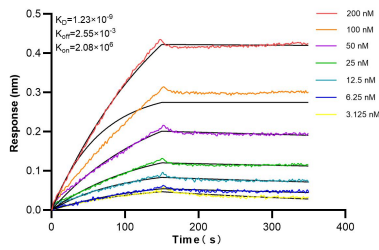
Various lysates were subjected to SDS PAGE followed by western blot with 87471-1-RR (Nicastrin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87471-1-PBS in a different storage buffer formulation.



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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). This data was developed using the same antibody clone with 87471-1-PBS in a different storage buffer formulation.



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