

For Research Use Only

# Synaptotagmin-5 Recombinant antibody

Catalog Number: 84452-1-RR



## Basic Information

Catalog Number:

84452-1-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12677

GenBank Accession Number:

BC046157

GeneID (NCBI):

6861

UNIPROT ID:

O00445

Full Name:

synaptotagmin V

Calculated MW:

43 kDa

Observed MW:

42 kDa

Purification Method:

Protein A purification

CloneNo.:

241452E3

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:200-1:800

IF-P 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

**WB** : mouse kidney tissue, rat kidney tissue, human kidney tissue, HUVEC cells, SW 1990 cells, BxPC-3 cells

**IHC** : mouse brain tissue, rat brain tissue

**IF-P** : mouse brain tissue,

## Background Information

The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis (PMID: 8058779). Synaptotagmin-5 (SYT5) belongs to the synaptotagmin family. Synaptotagmin-5 can function as an exocytosis regulator (PMID: 27793683) and is a protein potentially associated with the pathology of schizophrenia (PMID: 32860155).

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

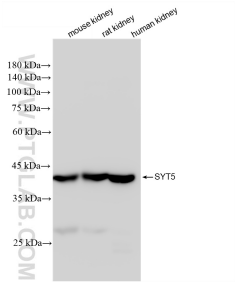
T: 4006900926

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

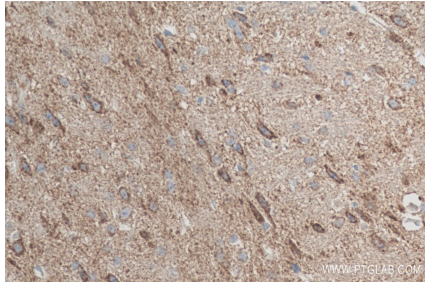
Selected Validation Data



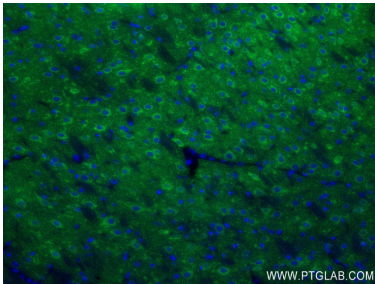
Various lysates were subjected to SDS PAGE followed by western blot with 84452-1-RR (Synaptotagmin-5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



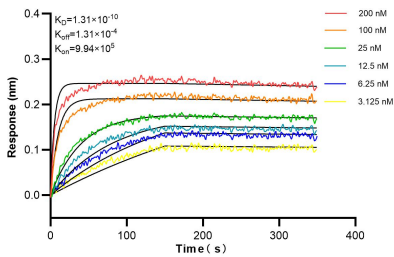
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84452-1-RR (Synaptotagmin-5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84452-1-RR (Synaptotagmin-5 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using Synaptotagmin-5 antibody (84452-1-RR, Clone: 241452E3 ) at dilution of 1:200 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84452-1-RR against Human Synaptotagmin-5 were performed. The affinity constant is 0.131 nM.