

For Research Use Only

# Synaptotagmin-5 Recombinant antibody

Catalog Number: 84452-1-RR



## Basic Information

<b>Catalog Number:</b> 84452-1-RR	<b>GenBank Accession Number:</b> BC046157	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6861	<b>CloneNo.:</b> 241452E3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O00445	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:200-1:800 IF-P 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> synaptotagmin V	
<b>Immunogen Catalog Number:</b> AG12677	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 42 kDa	

## 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

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

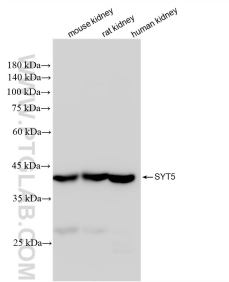
For technical support and original validation data for this product please contact:

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

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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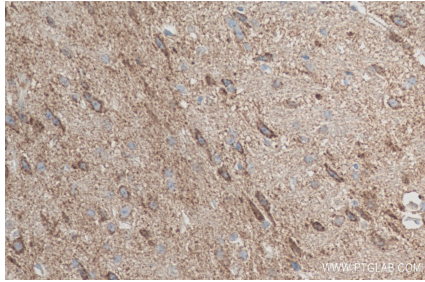
Selected Validation Data



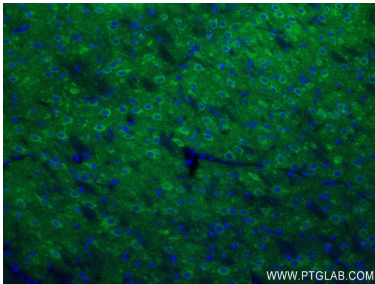
Various lysates were subjected to SDS PAGE followed by western blot with 84452-1-RR (Synaptotagmin-5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



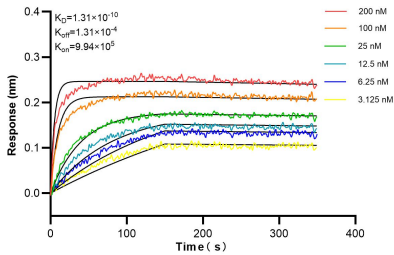
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84452-1-RR (Synaptotagmin-5 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.