

For Research Use Only

# Syntaxin 1A / Syntaxin 1B Monoclonal antibody



Catalog Number: 66437-1-Ig

Featured Product

9 Publications

## Basic Information

<b>Catalog Number:</b> 66437-1-Ig	<b>GenBank Accession Number:</b> BC062298	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 112755	<b>CloneNo.:</b> 2D3B5
<b>Source:</b> Mouse	<b>Full Name:</b> syntaxin 1B	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:2000-1:8000 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 288 aa, 33 kDa	
<b>Immunogen Catalog Number:</b> AG10257	<b>Observed MW:</b> 33 kDa, 55 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, mouse, rat, rabbit, pig

### Cited Species:

human, rat, mouse

**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** : pig brain tissue, rat brain tissue, fetal human brain tissue, Y79 cells, rabbit brain tissue, mouse brain tissue

**IHC** : rat brain tissue, human brain tissue

**IF** : mouse brain tissue,

## Background Information

Syntaxins are a family of transmembrane proteins that belong to the SNARE complex (PMID: 11737951). In conjunction with other SNAREs and with the cytoplasmic NSF and SNAP proteins, syntaxins mediate vesicle fusion in diverse vesicular transport processes along the exocytic and the endocytic pathway (PMID: 11737951). Syntaxin 1A and 1B, two closely related isoforms of syntaxin 1, are involved in synaptic vesicle docking and fusion during neurotransmitter release (PMID: 7690687; 1321498; 18691641). This antibody raised against 1-263 aa of human syntaxin 1B detects a ~33 kDa band of syntaxin 1 and an additional band of 55-60 kDa, which probably represents a syntaxin 1 dimer (PMID: 10100611).

## Notable Publications

Author	Pubmed ID	Journal	Application
Danyang Li	36374725	Neurotoxicology	WB
Dennis J Weingarten	36261524	Nature	WB
Nuomin Li	36505063	Front Physiol	WB

## 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

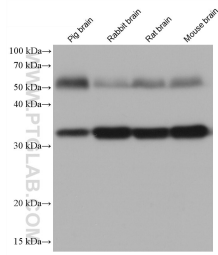
For technical support and original validation data for this product please contact:

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

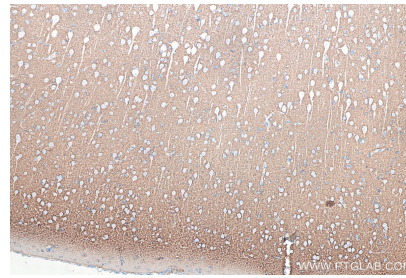
E: proteintech@ptglab.com  
W: ptglab.com

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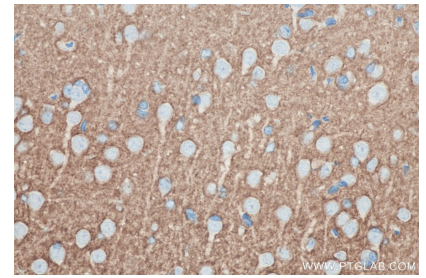
## Selected Validation Data



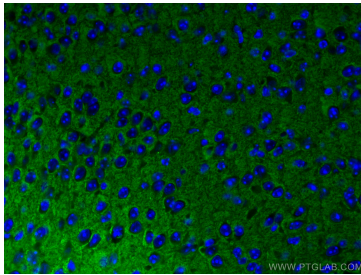
Various lysates were subjected to SDS PAGE followed by western blot with 66437-1-Ig (Syntaxin 1A / Syntaxin 1B antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 66437-1-Ig (Syntaxin 1A / Syntaxin 1B antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 66437-1-Ig (Syntaxin 1A / Syntaxin 1B antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using Syntaxin 1A / Syntaxin 1B antibody (66437-1-Ig, Clone: 2D3B5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).