

For Research Use Only

# Syntaxin 1A / Syntaxin 1B Monoclonal antibody



Catalog Number: 66437-1-Ig

Featured Product

9 Publications

## Basic Information

Catalog Number:

66437-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG10257

GenBank Accession Number:

BC062298

GeneID (NCBI):

112755

UNIPROT ID:

P61266

Full Name:

syntaxin 1B

Calculated MW:

288 aa, 33 kDa

Observed MW:

33 kDa, 55 kDa

Purification Method:

Protein A purification

CloneNo.:

2D3B5

Recommended Dilutions:

WB 1:5000-1:40000

IHC 1:2000-1:8000

IF 1:200-1:800

## Applications

Tested Applications:

IF-P, 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

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

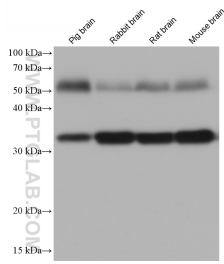
T: 4006900926

E: Proteintech-CN@ptglab.com

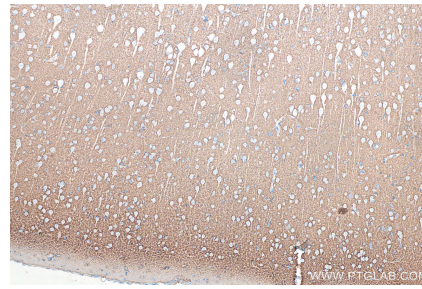
W: ptgcn.com

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

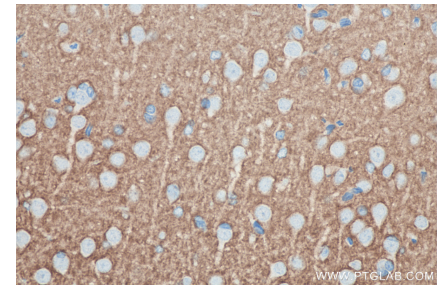
## Selected Validation Data



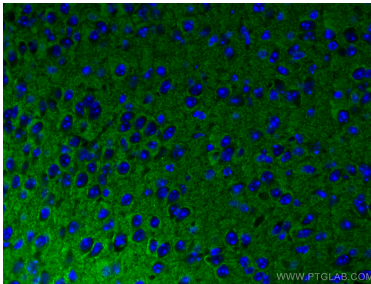
Various lysates were subjected to SDS PAGE followed by western blot with 66437-1-Ig (Syntaxin 1A / Syntaxin 1B antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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).