

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:

WB, IF

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

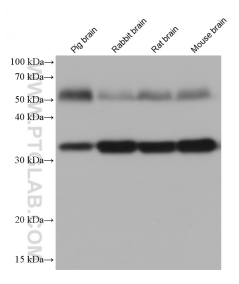
For technical support and original validation data for this product please contact:

T: 4006900926

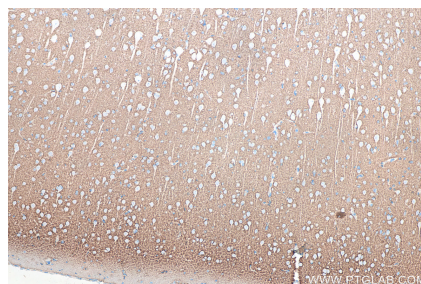
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

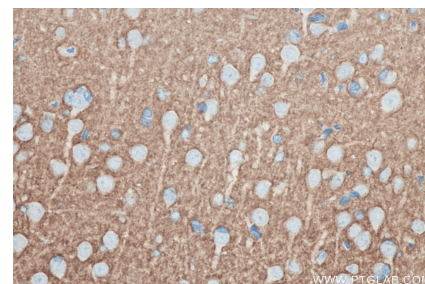
Selected Validation Data



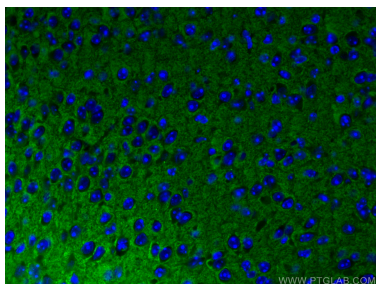
Various lysates were subjected to SDS PAGE followed by western blot with 66437-1-Ig (Syntaxin 1A / Syntaxin 1B antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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).