

# STX1B Recombinant antibody

Catalog Number: 83298-1-RR

## Basic Information

<b>Catalog Number:</b> 83298-1-RR	<b>GenBank Accession Number:</b> BC062298	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 112755	<b>CloneNo.:</b> 240156B9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P61266	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> syntaxin 1B	
<b>Immunogen Catalog Number:</b> AG10275	<b>Calculated MW:</b> 288 aa, 33 kDa <b>Observed MW:</b> 33-35 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> Y79 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> mouse eye tissue, mouse brain tissue
	<b>IF/ICC :</b> mouse brain tissue,

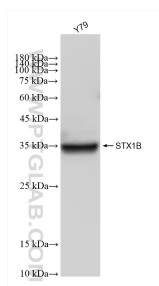
## Background Information

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 endocytic pathways (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).

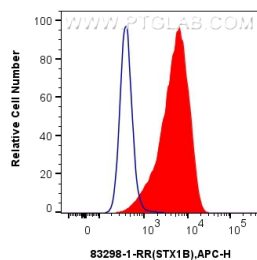
## Storage

**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**

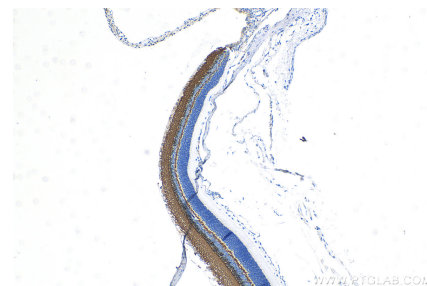
## Selected Validation Data



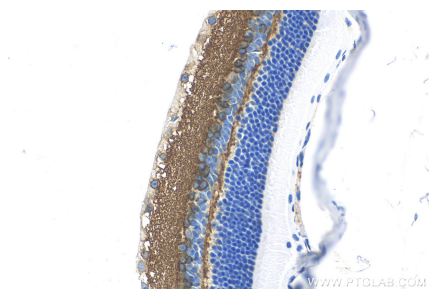
Y79 cells were subjected to SDS PAGE followed by western blot with 83298-1-RR (STX1B antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



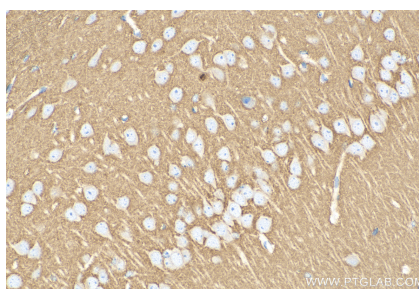
$1 \times 10^6$  SH-SY5Y cells were intracellularly stained with 0.25  $\mu$ g Stx1b Recombinant Antibody (83298-1-RR, Clone:240156B9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



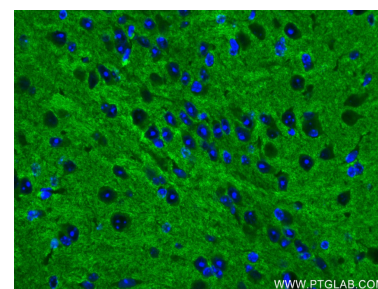
Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 83298-1-RR (STX1B antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



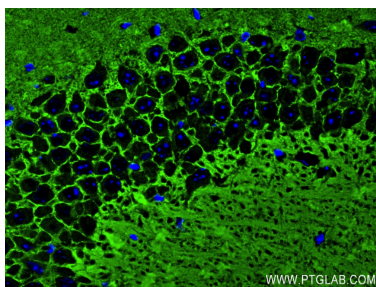
Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 83298-1-RR (STX1B antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



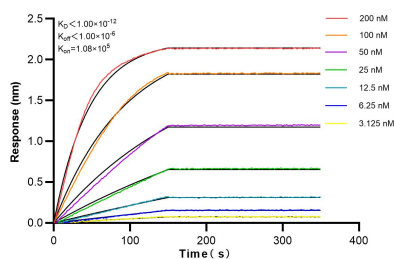
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 83298-1-RR (STX1B antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using STX1B antibody (83298-1-RR, Clone: 240156B9) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using STX1B antibody (83298-1-RR, Clone: 240156B9) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 83298-1-RR against Human STX1B were performed. The affinity constant is below 1 pM.