

## STXBP1 Monoclonal antibody

Catalog Number: 67137-1-Ig **1 Publications**

## Basic Information

<b>Catalog Number:</b> 67137-1-Ig	<b>GenBank Accession Number:</b> BC015749	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2500 µg/ml	<b>GeneID (NCBI):</b> 6812	<b>CloneNo.:</b> 1B5B3
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P61764	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF-P 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Full Name:</b> syntaxin binding protein 1	
<b>Immunogen Catalog Number:</b> AG28605	<b>Calculated MW:</b> 594 aa, 68 kDa	
	<b>Observed MW:</b> 68 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, FC (Intra), ELISA

**Cited Applications:**  
WB

**Species Specificity:**  
human, mouse, rat, pig

**Cited Species:**  
human

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

**IHC :** mouse brain tissue, mouse cerebellum tissue

**IF-P :** mouse brain tissue,

## Background Information

STXBP1, also named as UNC18A, N-Sec1 and p67 belongs to the STXBP/unc-18/SEC1 family. STXBP1 may participate in the regulation of synaptic vesicle docking and fusion, possibly through interaction with GTP-binding proteins. It is essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. STXBP1 can interact with syntaxins 1, 2, and 3 but not syntaxin 4. It may play a role in determining the specificity of intracellular fusion reactions.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xianping Wang	37443000	BMC Biol	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

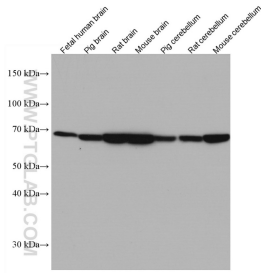
For technical support and original validation data for this product please contact:

T: 4006900926

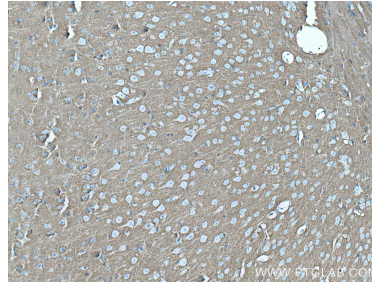
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

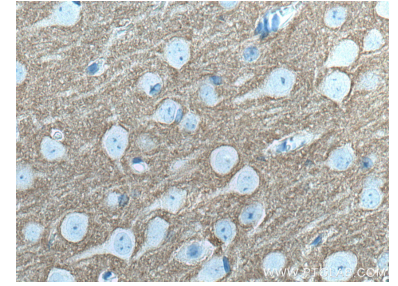
## Selected Validation Data



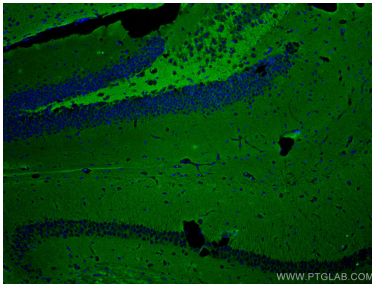
Various lysates were subjected to SDS PAGE followed by western blot with 67137-1-Ig (STXBP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



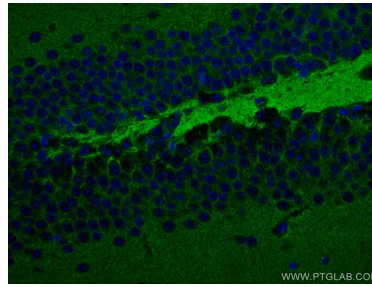
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67137-1-Ig (STXBP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



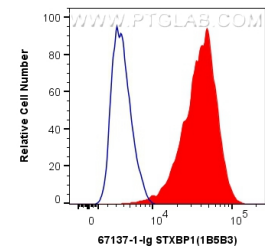
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67137-1-Ig (STXBP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using STXBP1 antibody (67137-1-Ig, Clone: 1B5B3) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using STXBP1 antibody (67137-1-Ig, Clone: 1B5B3) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4 ug Anti-Human STXBP1 (67137-1-Ig, Clone: 1B5B3) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (C1.18.4) (65208-1-Ig, Clone: C1.18.4) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).