

For Research Use Only

STXBP1 Monoclonal antibody

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



Basic Information

Catalog Number: 67137-1-Ig	GenBank Accession Number: BC015749	Purification Method: Protein A purification
Size: 150ul , Concentration: 2500 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6812	CloneNo.: 1B5B3
Source: Mouse	Full Name: syntaxin binding protein 1	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:200-1:800
Isotype: IgG2a	Calculated MW: 594 aa, 68 kDa	
Immunogen Catalog Number: AG28605	Observed MW: 68 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, 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 : 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

*** 20ul sizes contain 0.1% BSA

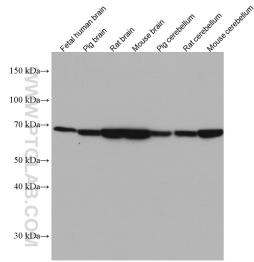
For technical support and original validation data for this product please contact:

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

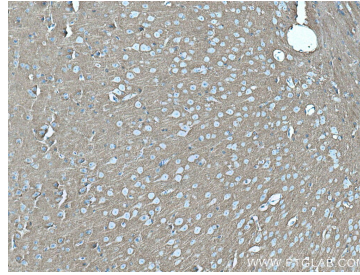
E: proteintech@ptglab.com
W: ptglab.com

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

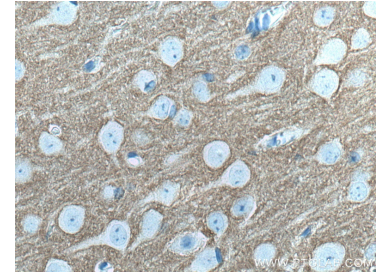
Selected Validation Data



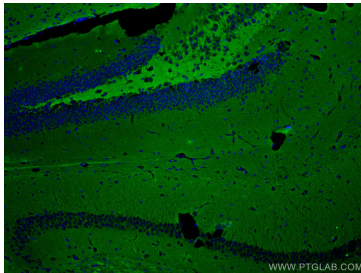
Various lysates were subjected to SDS PAGE followed by western blot with 67137-1-Ig (STXBP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



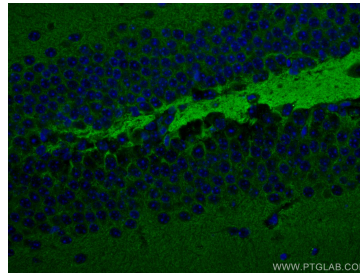
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67137-1-Ig (STXBP1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



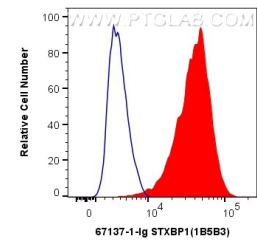
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67137-1-Ig (STXBP1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1×10^6 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).