

For Research Use Only

# STXBP5 Polyclonal antibody

Catalog Number: 24512-1-AP

1 Publications



## Basic Information

### Catalog Number:

24512-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG21629

### GenBank Accession Number:

BC113382

### GeneID (NCBI):

134957

### UNIPROT ID:

Q5T5C0

### Full Name:

syntaxin binding protein 5 (tomosyn)

### Calculated MW:

1151 aa, 128 kDa

### Observed MW:

130 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : rat brain tissue,

IF/ICC : SH-SY5Y cells,

## Background Information

Syntaxin-binding protein 5 (STXBP5, also known as tomosyn) is a cytosolic syntaxin-binding protein that can displace MUNC18 from syntaxin-1. It is a soluble R-SNARE protein that sequesters target SNAREs through the C-terminal VAMP-like domain. STXBP5 plays a regulatory role in calcium-dependent exocytosis and neurotransmitter release.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongqian Qi	39379476	Sci Rep	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

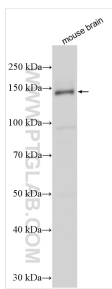
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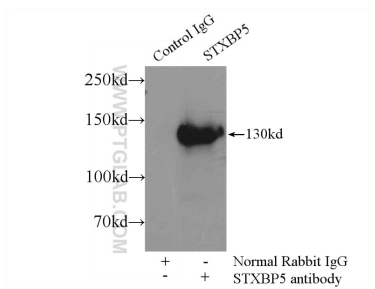
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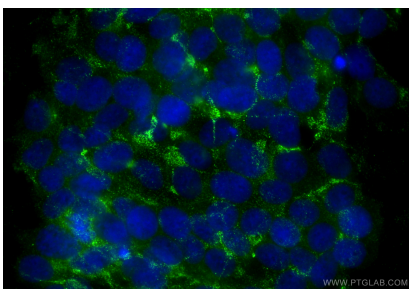
## Selected Validation Data



Mouse brain tissue was subjected to SDS PAGE, followed by western blot with 24512-1-AP (STXBP5 antibody) at a dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-STXBP5 (IP:24512-1-AP, 5ug; Detection:24512-1-AP 1:300) with rat brain tissue lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using STXBP5 antibody (24512-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).