

For Research Use Only

# SYNJ1 Polyclonal antibody

Catalog Number: 24677-1-AP

4 Publications



## Basic Information

### Catalog Number:

24677-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 293 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG20364

### GenBank Accession Number:

BC136603

### GeneID (NCBI):

8867

### UNIPROT ID:

O43426

### Full Name:

synaptojanin 1

### Calculated MW:

1612 aa, 178 kDa

### Observed MW:

140 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IP, IHC, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, 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 : mouse brain tissue, NIH/3T3 cells, rat brain tissue

IHC : human brain tissue, human skeletal muscle tissue, rat brain tissue, rat skeletal muscle tissue

IF/ICC : NIH/3T3 cells,

## Background Information

Synaptojanin 1, a polyphosphoinositide phosphatase, is expressed as two major alternatively spliced isoforms of 145 kDa (SJ145) and 170 kDa (SJ170), which are thought to have pleiotropic roles in endocytosis, signaling and actin function. SJ145 is highly enriched in nerve terminals where it participates in clathrin-dependent synaptic vesicle recycling. SJ170, which differs from SJ145 by the presence of a carboxy-terminal extension, is the predominant isoform in developing neurons and is expressed in a variety of tissues.(PMID:10801423).

## Notable Publications

Author	Pubmed ID	Journal	Application
Saifeldin N Shehata	30880224	Cell Signal	WB,IP
David Furkert	32783964	Cell Chem Biol	WB
Xinmiao Xie	38152048	Ren Fail	IHC

## 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

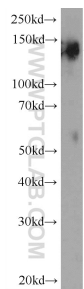
For technical support and original validation data for this product please contact:

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

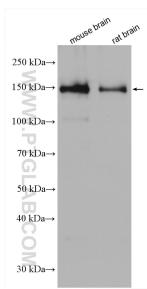
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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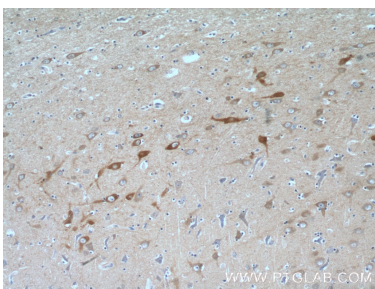
Selected Validation Data



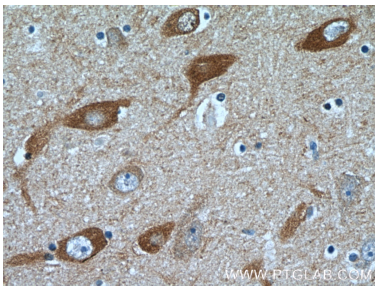
mouse brain tissue were subjected to SDS PAGE followed by western blot with 24677-1-AP (SYNJ1 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



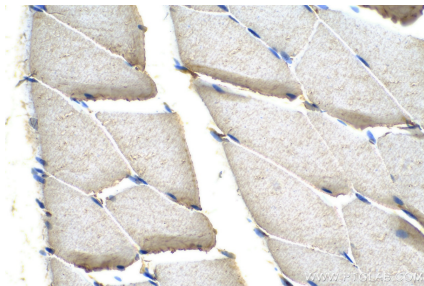
Various lysates were subjected to SDS PAGE followed by western blot with 24677-1-AP (SYNJ1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



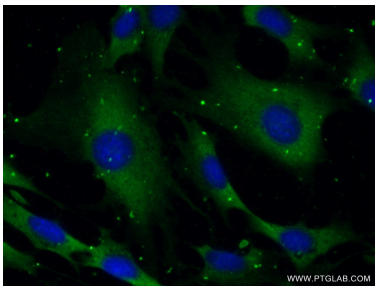
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 24677-1-AP (SYNJ1 Antibody) at dilution of 1:200 (under 10x lens).



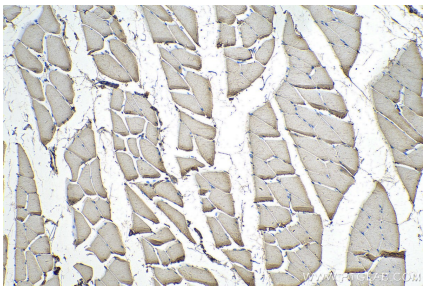
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 24677-1-AP (SYNJ1 Antibody) at dilution of 1:200 (under 40x lens).



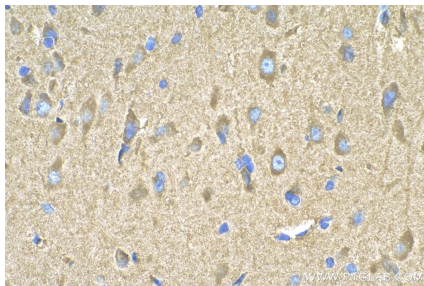
Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue slide using 24677-1-AP (SYNJ1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



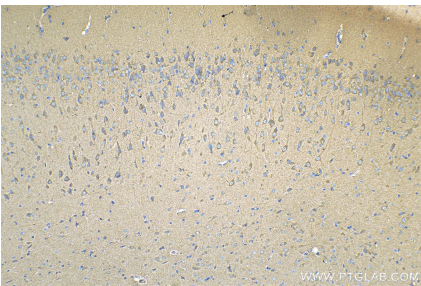
Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using 24677-1-AP (SYNJ1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue slide using 24677-1-AP (SYNJ1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 24677-1-AP (SYNJ1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 24677-1-AP (SYNJ1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).