

For Research Use Only

# SYNJ1 Polyclonal antibody

Catalog Number: 24677-1-AP **4 Publications**



## Basic Information

|   |  |  |
|---|--|--|
| <b>Catalog Number:</b><br>24677-1-AP        | <b>GenBank Accession Number:</b><br>BC136603 | <b>Purification Method:</b><br>Antigen affinity purification                             |
| <b>Size:</b><br>700 µg/ml                   | <b>GeneID (NCBI):</b><br>8867                | <b>Recommended Dilutions:</b><br>WB 1:1000-1:8000<br>IHC 1:50-1:500<br>IF/ICC 1:20-1:200 |
| <b>Source:</b><br>Rabbit                    | <b>UNIPROT ID:</b><br>O43426                 |  |
| <b>Isotype:</b><br>IgG                      | <b>Full Name:</b><br>synaptojanin 1          |  |
| <b>Immunogen Catalog Number:</b><br>AG20364 | <b>Calculated MW:</b><br>1612 aa, 178 kDa    |  |
|   | <b>Observed MW:</b><br>140 kDa               |  |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>IF/ICC, IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : mouse brain tissue, NIH/3T3 cells, rat brain tissue<br>IHC : human brain tissue, human skeletal muscle tissue, rat brain tissue, rat skeletal muscle tissue<br>IF/ICC : NIH/3T3 cells, |
| <b>Cited Applications:</b><br>WB, IP, IHC, CoIP  |  |
| <b>Species Specificity:</b><br>human, mouse, rat   |  |
| <b>Cited Species:</b><br>human, mouse  |  |
| <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> |  |

## 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         |

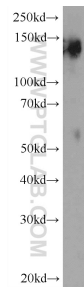
## Storage

**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

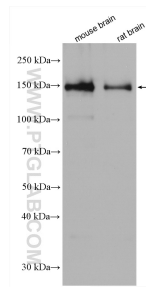
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

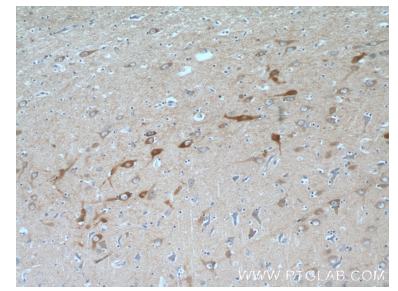
## Selected Validation Data



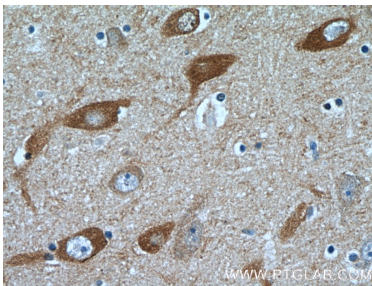
mouse brain tissue were subjected to SDS PAGE followed by western blot with 24677-1-AP (SYNJ1 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



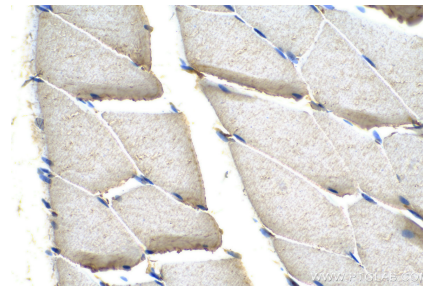
Various lysates were subjected to SDS PAGE followed by western blot with 24677-1-AP (SYNJ1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



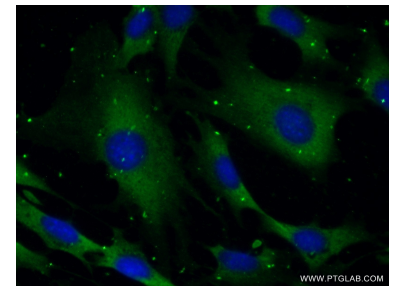
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 24677-1-AP (SYNJ1 Antibody) at dilution of 1:200 (under 10x lens).



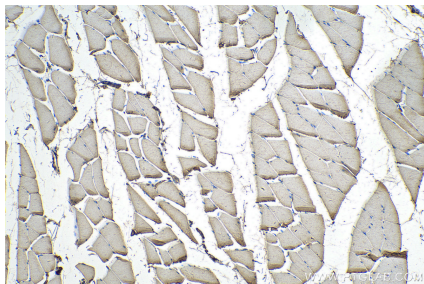
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 24677-1-AP (SYNJ1 Antibody) at dilution of 1:200 (under 40x lens).



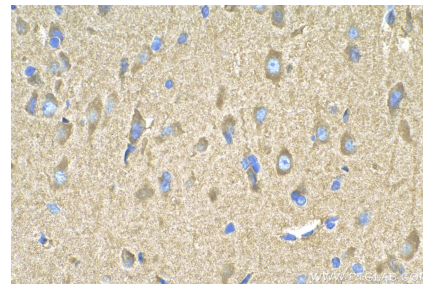
Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue slide using 24677-1-AP (SYNJ1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



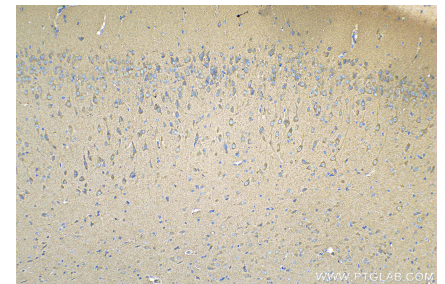
Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using 24677-1-AP (SYNJ1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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).