

For Research Use Only

# Synaptotagmin-4 Polyclonal antibody, PBS Only

Catalog Number: 12642-1-PBS



## Basic Information

Catalog Number:

12642-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3338

GenBank Accession Number:

BC036538

GeneID (NCBI):

6860

UNIPROT ID:

Q9H2B2

Full Name:

synaptotagmin IV

Calculated MW:

425 aa, 48 kDa

Observed MW:

45-48 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

## Background Information

The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis (PMID: 8058779). Synaptotagmin-4 is an atypical synaptic vesicle protein that is expressed in the dendrites of neurons. It mediates retrograde signals at the synapse and the release of BDNF, and regulates synaptic plasticity, motor learning, and memory. (PMID: 27223326;29166604)

## Storage

Storage:

Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS only, pH7.3

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

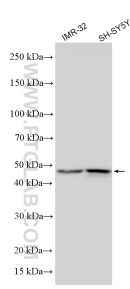
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

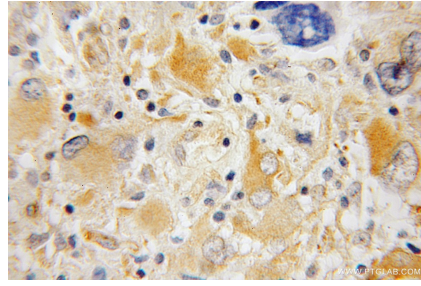
W: [ptgcn.com](http://ptgcn.com)

**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 12642-1-AP (Synaptotagmin-4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12642-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human gliomas using 12642-1-AP (Synaptotagmin-4 antibody) at dilution of 1:100 (under 10x lens). This data was developed using the same antibody clone with 12642-1-PBS in a different storage buffer formulation.