

For Research Use Only

# SYN1-Specific Polyclonal antibody

Catalog Number: 20258-1-AP **42 Publications**



## Basic Information

**Catalog Number:**

20258-1-AP

**Size:**

700 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_006950

**GeneID (NCBI):**

6853

**UNIPROT ID:**

P17600

**Full Name:**

synapsin I

**Calculated MW:**

74 kDa

**Observed MW:**

70-80 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:20000

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

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, 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,

IP : rat brain tissue,

IHC : mouse brain tissue,

## Background Information

SYN1, also named as Brain protein 4.1, belongs to the synapsin family. SYN1 is a neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level. Defects in SYN1 are a cause of epilepsy X-linked with variable learning disabilities and behavior disorders (XELBD).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yanan Li	36147703	Front Aging Neurosci	IF
Bo Li	36309937	Neurochem Res	WB
Zhuo Ma	36341850	Sci Total Environ	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

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

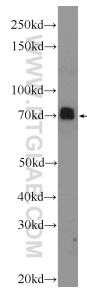
T: 4006900926

E: Proteintech-CN@ptglab.com

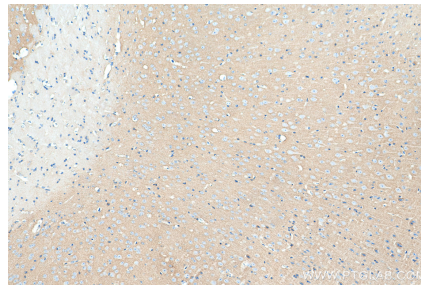
W: ptgcn.com

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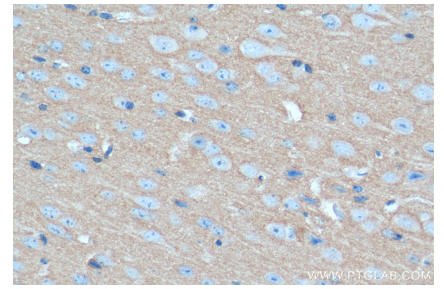
## Selected Validation Data



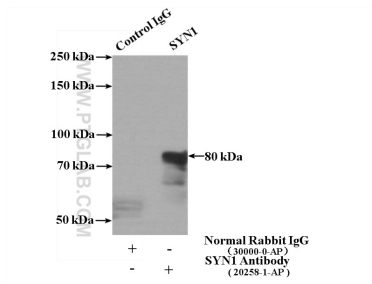
mouse brain tissue were subjected to SDS PAGE followed by western blot with 20258-1-AP (SYN1-Specific Antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20258-1-AP (SYN1-Specific antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20258-1-AP (SYN1-Specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-SYN1-Specific (IP:20258-1-AP, 4ug; Detection:20258-1-AP 1:3000) with rat brain tissue lysate 4000ug.