

## Anti-Synapsin-1 Polyclonal Antibody

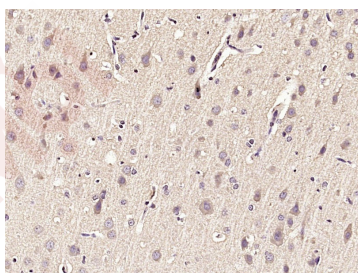
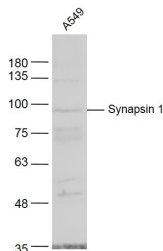
### Product Details

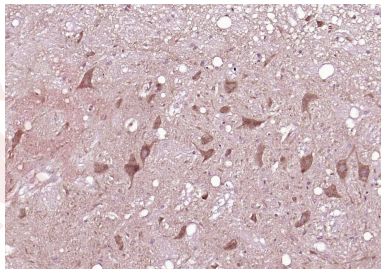
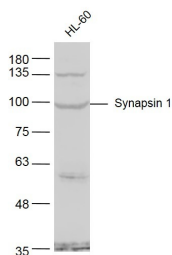
Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Pig,Rabbit)
Molecular Weight:	Theoretical: 85 kDa. Actual: 85 kDa.
Purification:	Protein A purified

### Applications

1. Sample:  
A549 (Human) Cell Lysate at 40 µg  
Primary: Anti-Synapsin 1 (TMAB-01801) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 85 kDa  
Observed band size: 85 kDa
2. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0); Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30 min; Antibody incubation with (Synapsin 1) Polyclonal Antibody, Unconjugated (TMAB-01801) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.
3. Sample:  
HL-60 (Human) Cell Lysate at 40 µg  
Primary: Anti-Synapsin 1 (TMAB-01801) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 85 kDa  
Observed band size: 85 kDa
4. Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (Synapsin 1) Polyclonal Antibody, Unconjugated (TMAB-01801) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity:





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Synapsin I

Antigen Species: Human

Gene ID: 6853

Uniprot ID: P17600

Synonyms: Synapsin I;SYN1;Brain protein 4.1;Synapsin-1

Biology Area: Synapse marker,SNAPs & SNAREs

## Research Background

This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a role in regulation of axonogenesis and synaptogenesis. The protein encoded serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. Mutations in this gene may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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