# Product Name: Synapsin-1 Rabbit Polyclonal Antibody Catalog #: APRab18493



## **Summary**

**Production Name** Synapsin-1 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

Host Rabbit
Application WB,

**Reactivity** Human, Mouse, Rat

### **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

### **Immunogen**

Storage

Gene Name SYN1

Alternative Names SYN1; Synapsin-1; Brain protein 4.1; Synapsin I

Gene ID 6853.0

**SwissProt ID** P17600.Synthesized peptide derived from the Internal region of human Synapsin-1.

# **Application**

**Dilution Ratio** WB 1:500-2000;; ELISA 2000-20000

Molecular Weight 75kD

## **Background**

This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the

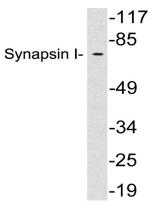
# Product Name: Synapsin-1 Rabbit Polyclonal Antibody Catalog #: APRab18493



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], disease:Defects in SYN1 are a cause of epilepsy X-linked with variable learning disabilities and behavior disorders [MIM:300491]. XELBD is characterized by variable combinations of epilepsy, learning difficulties, macrocephaly, and aggressive behavior., function: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., PTM:Substrate of at least four different protein kinases. It is probable that phosphorylation plays a role in the regulation of synapsin-1 in the nerve terminal. Phosphorylated upon DNA damage, probably by ATM or ATR., similarity:Belongs to the synapsin family., subunit:Homodimer. Interacts with CAPON. Forms a ternary complex with NOS1. Isoform Ib interacts with PRNP.,

#### **Research Area**

### **Image Data**

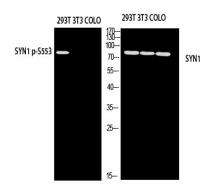


Western blot analysis of lysates from HeLa cells, using Synapsin I antibody.

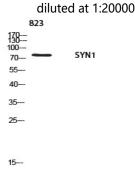
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

# **Product Name: Synapsin-1 Rabbit Polyclonal Antibody** Catalog #: APRab18493

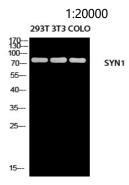




Western blot analysis of 293T 3T3 COLO using SYN1 antibody. Antibody was diluted at 1:1000. Secondary antibody was



Western blot analysis of 823 using SYN1 antibody. Antibody was diluted at 1:1000. Secondary antibody was diluted at



Western blot analysis of 293T 3T3 COLO using SYN1 antibody. Antibody was diluted at 1:1000. Secondary antibody was diluted at 1:20000

### Note

For research use only.