# Product Name: Synapsin I (phospho Ser605) Rabbit

Polyclonal Antibody Catalog #: APRab05501



#### **Summary**

**Production Name** Synapsin I (phospho Ser605) Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

Application ELISA,IF,IHC

**Reactivity** Human, Mouse, Rat

#### **Performance**

**Conjugation** Unconjugated

**Modification** Phospho Antibody

**Isotype** IgG

Clonality Polyclonal Form Liquid

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

cycles.

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

**Purification** Affinity purification

#### **Immunogen**

Gene Name SYN1

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

Gene ID 6853.0

P17600.The antiserum was produced against synthesized peptide derived from human SwissProt ID

Synapsin1 around the phosphorylation site of Ser605. AA range:576-625

### **Application**

**Dilution Ratio** IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

**Molecular Weight** 

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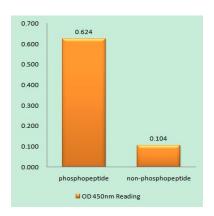


#### **Background**

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], disease: Defects in SYN1 are a cause of epilepsy Xlinked 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**



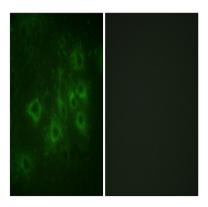
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Synapsin1 (Phospho-Ser605) Antibody

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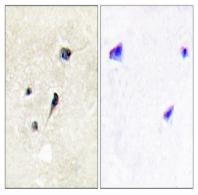
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Immunofluorescence analysis of COS7 cells, using Synapsin1 (Phospho-Ser605) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using Synapsin1 (Phospho-Ser605) Antibody. The picture on the right is blocked with the phospho peptide.

#### **Note**

For research use only.