

Product Name: Synapsin I (phospho Ser9) Rabbit Polyclonal Antibody Catalog #: APRab05503

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

ApplicationWB,IHC,ICC/IF,ELISAReactivityHuman,Mouse,RatConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000

Molecular Weight 77kDa

Antigen Information

Gene Name SYN1

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

 Gene ID
 6853.0

 SwissProt ID
 P17600

The antiserum was produced against synthesized peptide derived from human Synapsin Immunogen

around the phosphorylation site of Ser9. AA range:3-52

Background

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

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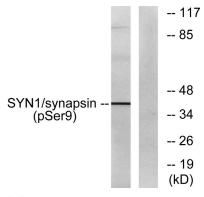


cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a 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.,

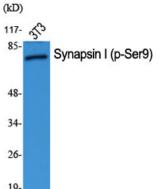
Research Area

Neuroscience

Image Data



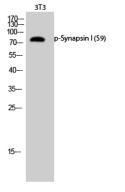
Western blot analysis of lysates from 293 cells treated with PMA 200nM 30 ', using Synapsin (Phospho-Ser9) Antibody. The lane on the right is blocked with the phospho peptide.



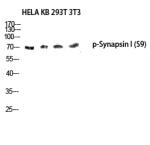
Western Blot analysis of various cells using Phospho-Synapsin I (S9) Polyclonal Antibody diluted at 1: 1000

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Western Blot analysis of 3T3 cells using Phospho-Synapsin I $\,$ (S9) Polyclonal Antibody diluted at 1: 1000



Western blot analysis of HELA KB 293T 3T3 lysis using Phospho-Synapsin I $\,$ (S9) an tibody. Antibody was diluted at 1:1000

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