Product Name: Synapsin I Rabbit Polyclonal Antibody Catalog #: APRab18491

C EnkiLife

Summary

Production Name Synapsin I Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IHC,WB,ELISA **Reactivity** Human,Mouse,Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

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

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

Synapsin1. AA range:26-75

Application

SwissProt ID

Dilution Ratio WB 1:500 - 1:2000. IHC 1:100 - 1:300. . ELISA: 1:20000.

Molecular Weight 80kD

Background

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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

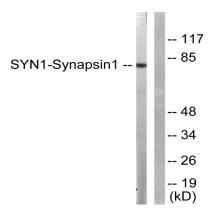


Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Synapsin1 Antibody. The picture on the right is blocked with the synthesized peptide.

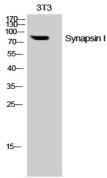
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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Western blot analysis of lysates from NIH/3T3 cells, treated with Nocodazole 1ug/ml 16h, using Synapsin1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of NIH-3T3 cells using Synapsin I Polyclonal Antibody

Note

For research use only.