



Synapsin-1 (phospho Ser553) Monoclonal Antibody

Catalog No	BYmab-14581
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SYN1
Protein Name	Synapsin-1
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human Synapsin-1 (phospho Ser553)
Specificity	Phospho-Synapsin-1 (S553) Monoclonal Antibody detects endogenous levels of Synapsin-1 around the phosphorylation site of S553 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SYN1; Synapsin-1; Brain protein 4.1; Synapsin I
Observed Band	75kD
Cell Pathway	Cell junction, synapse. Golgi apparatus .
Tissue Specificity	Brain,Brain cortex,
Function	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

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NOS1. Isoform Ib interacts with

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],

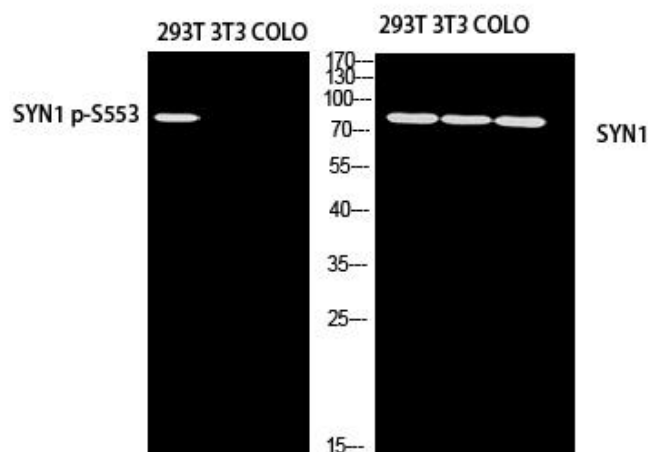
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Synapsin-1 (phospho Ser553) Monoclonal Antibody

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