

Synapsin-1 (phospho Ser553) Polyclonal Antibody

Catalog # AP68139

Specification

Synapsin-1 (phospho Ser553) Polyclonal Antibody - Product Information

Application WB
Primary Accession P17600

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

Synapsin-1 (phospho Ser553) Polyclonal Antibody - Additional Information

Gene ID 6853

Other Names

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

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Synapsin-1 (phospho Ser553) Polyclonal Antibody - Protein Information

Name SYN1

Function

Neuronal phosphoprotein that coats synaptic vesicles, and binds to the cytoskeleton. Acts as a regulator of synaptic vesicles trafficking, involved in the control of neurotransmitter release at the pre-synaptic terminal (PubMed:21441247, PubMed:23406870). Also involved in the regulation of axon outgrowth and synaptogenesis (By similarity). The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level (By similarity).

Cellular Location

Synapse {ECO:0000250|UniProtKB:O88935}. Golgi apparatus {ECO:0000250|UniProtKB:O88935}. Presynapse. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:P09951}. Note=Dissociates from synaptic vesicles and redistributes into the axon during action potential firing, in a step that precedes fusion of vesicles with the plasma membrane. Reclusters to presynapses after the cessation of synaptic activity. {ECO:0000250|UniProtKB:P09951}

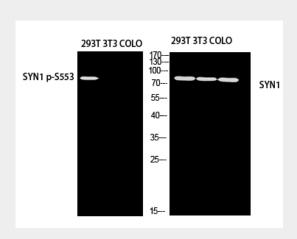


Synapsin-1 (phospho Ser553) Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Synapsin-1 (phospho Ser553) Polyclonal Antibody - Images



Western blot analysis of 293T using SYN1 p-S553 antibody. Antibody was diluted at 1:500

Synapsin-1 (phospho Ser553) Polyclonal Antibody - Background

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.