

Synapsin I (Phospho Ser553) Rabbit pAb

CatalogNo: YP1207 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, ELISA

MW

- 75kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

ELISA :5000-1:20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho-peptide around the phosphorylation site of human Synapsin-1 (phospho Ser553)

Specificity Phospho-Synapsin-1 (S553) Polyclonal Antibody detects endogenous levels of Synapsin-1 around the phosphorylation site of S553 protein. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): SPsPQ

Target Information

Gene name SYN1

Protein Name Synapsin-1

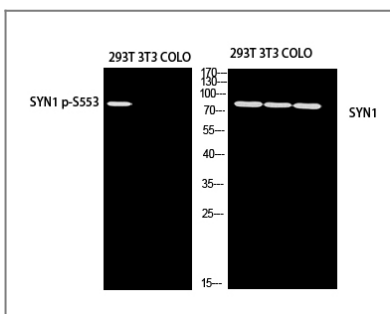
Organism	Gene ID	UniProt ID
Human	6853 ;	P17600 ;
Mouse	20964 ;	O88935 ;
Rat	24949 ;	P09951 ;

Cellular Localization Cell junction , synapse. Golgi apparatus .

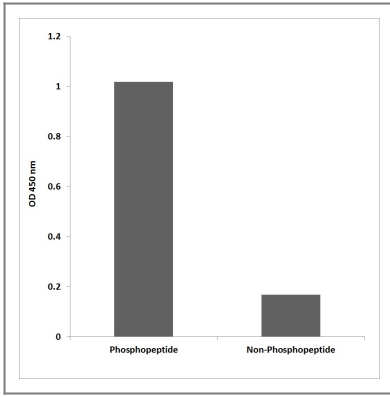
Tissue specificity Brain ,Brain cortex ,

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 NOS1. Isoform Ib interacts with PRNP. ,

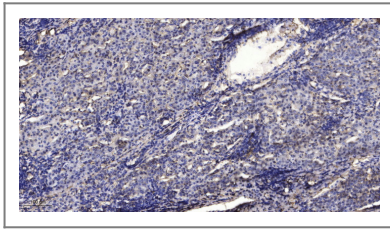
Validation Data



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



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Synapsin I (Phospho-Ser553) Antibody



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

Orders: order.cn@immunoway.com
 Support: support.cn@immunoway.com
 Telephone: 400-8787-807(China)
 Website: <http://www.immunoway.com.cn>
 Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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Synapsin I (Phospho Ser553) Rabbit pAb

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