

PRODUCT DATA SHEET



Bioworld Technology, Inc.

p-Synapsin I (S9) pAb

Cat No.: BS4802

Host: Rabbit

Reactivity: Human, Mouse, Rat

BACKGROUND

Synapsin I, which exists as two alternatively spliced isoforms designated Synapsin Ia and Synapsin Ib, has been characterized as one of the major phosphoproteins in nerve terminals and is thought to be involved in the regulation of neurotransmitter release. Synapsin I cross-links synaptic vesicles and the cytoskeleton, and the interactions of synapsins with Actin filaments and synaptic vesicles are regulated by phosphorylation by calmodulin-dependent protein kinase II and cAMP-dependent protein kinase. Posttranslational modifications of Synapsin I result in phosphorylation of the protein at different sites and by different kinases. The Ser 553 residue of Synapsin I is phosphorylated *in vivo*. This phosphorylation site is immediately followed by a proline, suggesting that Synapsin I is an *in vivo* substrate of the proline-directed protein kinase, Cdk5.

PRODUCT

1 mg/ml in Phosphate buffered saline (PBS) with 0.05

Molecular Weight

~74 kDa

PURIFICATION & PURITY

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

APPLICATIONS

WB: 1:500 ~ 1:1000

IHC: 1:50 ~ 1:200

IF: 1:50 ~ 1:200 (Recommended Dilutions)

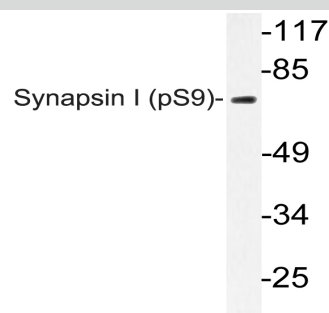
STORAGE & STABILITY

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

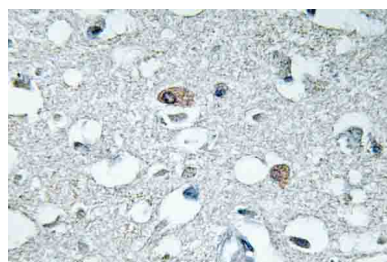
SPECIFICITY

p-Synapsin I (S9) pAb detects endogenous levels of Synapsin I protein only when phosphorylated at S9.

DATA



Western blot (WB) analyzes of p-Synapsin I (S9) pAb in extracts from mouse brain cells.



Immunohistochemistry (IHC) analyzes of p-Synapsin I (S9) pAb in paraffin-embedded human brain tissue.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

Bioworld Technology, Inc.

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