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Anti-Phospho-Synapsin I (Ser9) Syn1 Antibody

Catalog Number: P03794-3

About SYN1

Synapsin I plays a key role in synaptic plasticity in brain (Feng et al., 2002; Nayak et al., 1996). This effect is due in large part to the ability of the synapsins to regulate the availability of synaptic vesicles for release. In addition to its role in plasticity, the expression of synapsin I is a precise indicator of synapse formation (Moore and Bernstein, 1989; Stone et al., 1994). Thus, synapsin I immunocytochemistry provides a valuable tool for the study of synaptogenesis. The role of synapsin in synaptic plasticity and in synaptogenesis is regulated by phosphorylation (Jovanovic et al., 2001; Kao et al., 2002). Serine 9 is the site on synapsin I that is phosphorylated by cAMP-dependent protein kinase and by calcium calmodulin kinase I (Czernik et al., 1987). Phosphorylation of this site is thought to regulate synaptic vesicle function and neurite outgrowth (Kao et al., 2002).

Overview

Product Name	Anti-Phospho-Synapsin I (Ser9) Syn1 Antibody
Reactive Species	Mouse, Rat, Zebrafish
Description	Boster Bio Anti-Phospho-Synapsin I (Ser9) Syn1 Antibody (Catalog # P03794-3). Tested in WB, ICC applications. This antibody reacts with Mouse, Rat, Zebrafish.
Application	ICC, WB
Clonality	Polyclonal 608
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	P17599

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser9 of rat synapsin, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Human, Xenopus
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution



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	procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:1000 ICC: 1:500



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Anti-Phospho-Synapsin I (Ser9) Syn1 Antibody (P03794-3) Images



1 Publications Citing This Product

1. PubMed ID: 26527454, Neurotoxicity induced by zinc oxide nanoparticles: age-related differences and interaction

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