Datasheet: AHP909

Description:	RABBIT ANTI SYNAPSIN I (pSer9)
Specificity:	SYNAPSIN I (pSer9)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting (1)	▪			1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) **For the detection of phosphoproteins, serine phosphatase inhibitors such as 10mM Sodium Fluoride should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background.**

Target Species

Rat

Species Cross Reactivity

Based on sequence similarity, is expected to react with:Zebrafish, Mouse, Xenopus, Human, Bovine

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to phosphorylated synapsin I were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution

10mM HEPES pH7.5
150mM NaCl

Preservative Stabilisers

0.09% Sodium Azide
0.01% Bovine Serum Albumin

	50% Glycerol
Immunogen	Synthetic phosphopeptide corresponding to an amino acid sequence within Synapsin I which includes the phosphorylated residue Ser9.
External Database Links	**UniProt:** P09951 Related reagents **Entrez Gene:** 24949 Syn1 Related reagents
Specificity	**Rabbit anti Rat synapsin I (pSer9) antibody** recognizes synapsin I, also known as Syn1, when phosphorylated at serine 9. Synapsin I is a neuron-specific phosphoprotein which is associated with synaptic vesicles in the central and peripheral nervous system and is involved in the regulation of synaptic vesicle availability, and thought to play a key role in brain plasticity. Synapsin I is phosphorylated at serine 9 by cAMP-dependent protein kinase and calcium calmodulin kinase I.
Western Blotting	AHP909 detects a band of approximately 78kDa in rat cortex lysates. In some cases there may be an additional faint band at approximately 55kD, which corresponds to slight cross-reactivity with phosphorylated synapsin II.
References	1. Jovanovic, J.N. *et al.* (2001) Opposing changes in phosphorylation of specific sites in synapsin I during Ca2+-dependent glutamate release in isolated nerve terminals. J Neurosci. 21 (20): 7944-53. 2. Kao, H.T. *et al.* (2002) A protein kinase A-dependent molecular switch in synapsins regulates neurite outgrowth. Nat Neurosci. 5 (5): 431-7. 3. Menegon, A. *et al.* (2000) Use of phosphosynapsin I-specific antibodies for image analysis of signal transduction in single nerve terminals. J Cell Sci. 113 (Pt 20): 3573-82.
Storage	Store at +4^{o}C or at -20^{o}C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10088 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC

Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (2AB02...)	Biotin
Sheep Anti Rabbit IgG (STAR36...)	DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800

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