

Datasheet: AHP908

Description:	RABBIT ANTI SYNAPSIN I (pSer603)
Specificity:	SYNAPSIN I (pSer603)
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, Bovine, Mouse, Xenopus, Human 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
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 Ser603.

External Database Links

UniProt:
[P09951](#) [Related reagents](#)

Entrez Gene:
[24949](#) Syn1 [Related reagents](#)

Specificity **Rabbit anti Rat synapsin I (pSer603) antibody** recognizes synapsin I, also known as Syn1, when phosphorylated at serine 603.

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 603 by CaMKII.

Western Blotting AHP908 detects a band of approximately 78kDa in rat brain lysates.

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°C or at -20°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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