

Datasheet: AHP899

BATCH NUMBER 160885

Description:	SHEEP ANTI DYNAMIN (pSer774)
Specificity:	DYNAMIN (pSer774)
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	▪			1/1000
Immunofluorescence	▪			

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.

Target Species

Rat

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Human, Monkey, Bovine, Chicken, Mouse, Dog

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation Antisera to phosphorylated rat dynamin were raised by repeated immunisations of sheep 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 dynamin which includes phosphorylated Ser774.
External Database Links	UniProt: P21575 Related reagents Entrez Gene: 140694 Dnm1 Related reagents
Synonyms	Dnm
RRID	AB_567392
Specificity	Sheep anti Rat dynamin (pSer774) antibody recognizes dynamin, also known as B-dynamin and D100, when phosphorylated at serine 774. Dynamin is a phosphoprotein expressed at nerve terminals, which plays an important role in the regulation of synaptic vesicle endocytosis. Cyclin dependent protein kinase 5 (cdk5) has been shown to phosphorylate serine 774 and 778 <i>in vivo</i> . Dephosphorylation of these residues is essential for endocytosis of synaptic vesicles.
Western Blotting	AHP899 detects a band of approximately 95kDa in rat hippocampus lysates.
References	1. Morton, A. <i>et al.</i> (2015) Synaptic vesicle exocytosis and increased cytosolic calcium are both necessary but not sufficient for activity-dependent bulk endocytosis. J Neurochem. 134 (3): 405-15. 2. Marland, J.R. <i>et al.</i> (2016) Synaptic Vesicle Recycling Is Unaffected in the Ts65Dn Mouse Model of Down Syndrome. PLoS One. 11 (1): e0147974. 3. Kontaxi, C. <i>et al.</i> (2023) Epilepsy-related CDKL5 deficiency slows synaptic vesicle endocytosis in central nerve terminals. J Neurosci. JN-RM-1537-22.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #10088 available at:

Information <https://www.bio-rad-antibodies.com/SDS/AHP899>
10088

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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