

Datasheet: AHP899

**BATCH NUMBER 160885**

<b>Description:</b>	SHEEP ANTI DYNAMIN (pSer774)
<b>Specificity:</b>	DYNAMIN (pSer774)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Buffer Solution</b>	10mM HEPES pH7.5
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 0.01% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Synthetic phosphopeptide corresponding to an amino acid sequence within dynamin which includes phosphorylated Ser774.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P21575</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">140694</a> Dnm1 <a href="#">Related reagents</a>
<b>Synonyms</b>	Dnm
<b>RRID</b>	AB_567392
<b>Specificity</b>	<b>Sheep anti Rat dynamin (pSer774) antibody</b> 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.
<b>Western Blotting</b>	AHP899 detects a band of approximately 95kDa in rat hippocampus lysates.
<b>References</b>	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. <a href="#">J Neurochem. 134 (3): 405-15.</a> 2. Marland, J.R. <i>et al.</i> (2016) Synaptic Vesicle Recycling Is Unaffected in the Ts65Dn Mouse Model of Down Syndrome. <a href="#">PLoS One. 11 (1): e0147974.</a> 3. Kontaxi, C. <i>et al.</i> (2023) Epilepsy-related CDKL5 deficiency slows synaptic vesicle endocytosis in central nerve terminals. <a href="#">J Neurosci. JN-RM-1537-22.</a>
<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10088 available at:

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

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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