

Datasheet: AHP898

Description:	RABBIT ANTI DARPP-32 (pThr75)
Specificity:	DARPP-32 (pThr75)
Other names:	DOPAMINE-AND cAMP-REGULATED PHOSPHOPROTEIN-32
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, threonine 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:Dog, Monkey	, Mouse, Human, Bovine,
,	N.B. Antibody reactivity and working conditions may vary between s	pecies.
Product Form	Purified IgG - liquid	
Antiserum Preparation	Antisera to phosphorylated rat DARPP-32 were raised by repeated i highly purified antigen. Purified IgG prepared by affinity chromatogra	
Buffer Solution	10mM HEPES pH7.5	
Preservative	0.09% Sodium Azide	
Stabilisers	0.01% Bovine Serum Albumin	

50% Glycerol

Immunogen

Synthetic phosphopeptide corresponding to an amino acid sequence within DARPP-32 which includes phosphorylated Thr75.

External Database Links

UniProt:

Q6J4I0 Related reagents

Entrez Gene:

360616 Ppp1r1b Related reagents

Specificity

Rabbit anti Rat DARPP-32 (pThr75) antibody recognises rat DARPP-32, when phosphorylated at threonine 75. DARPP-32 is a 205 amino acid ~32 kDa member of the protein phosphatase inhibitor 1 family. Originally discovered as a substrate for cAMP-dependent protein kinase which modulates cell signalling in neurons. DARPP-32 is converted into an inhibitor of protein phosphatase-1 when phosphorylated by protein kinase A at threonine 34, as a result of dopaminergic receptor stimulation (Bibb et al. 1999). However this phosphorylation is reversed on stimulation of N-methyl-D-aspartate (NMDA) receptors by glutamate (Halpain et al. 1990). Conversely when phosphorylated at threonine-75 by CDK5, DARPP-32 becomes an inhibitor of protein kinase A (Bibb et al. 1999).

DARPP-32 is principally expressed in striatal medium spiny neurons and plays a critical role in the regulation of dopaminergic neurotransmission.

Western Blotting	AHP898 detects a band of approximately 32kDa in rat caudate lysates.
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	Material Safety Datasheet documentation available at:
Information	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®800

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