Datasheet: AHP2702

BATCH NUMBER 147425

Description:	RABBIT ANTI PP1 ALPHA (pThr320)
Specificity:	PP1 ALPHA (pThr320)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

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
Western Blotting	▪			1/500 - 1/2000

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with:Mouse
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

Antiserum to PP1 alpha (pThr320) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.02% Sodium Azide
50% Glycerol

Immunogen	Phospho specific-peptide corresponding to residues surrounding threonine 320 of human PP1 alpha
External Database Links	**UniProt:** P62136 Related reagents **Entrez Gene:** 5499 PPP1CA Related reagents
Synonyms	PPP1A
Specificity	**Rabbit anti PP1 alpha (pThr320) antibody** recognizes serine/threonine-protein phosphatase PP1-alpha catalytic subunit, also known as PPP1A, when phosphorylated at threonine 320. PP1 alpha is one of three catalytic subunits of protein phosphatase 1 (PP1). Catalytic subunits can form complexes with regulatory proteins to form distinct multimeric holoenzymes (Ceulemans, H. & Bollen, M. 2004). PP1 activity is crucial for cell cycle progression. PP1 dephosphorylates many substrates target including retinoblastoma protein (Rb) (Durfee, T. et al. 1993). Phosphorylation of PP1 alpha on residue threonine 320 is performed by Cyclin-dependent kinase 1 (CDC2) kinase and leads to inhibition of its activity (Kwon, Y.G. el al. 1997).
Storage	Store at -20ºC 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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/AHP2702 10049
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE ANTI PP1 ALPHA (VMA00742)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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

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