Datasheet: AHP905

Description:	RABBIT ANTI p38 MAPK (pThr180/pTyr182)
Specificity:	p38 MAPK (pThr180/pTyr182)
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

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click here to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Rat

Species Cross Reactivity

Reacts with: Human, Newt
Based on sequence similarity, is expected to react with:Chicken, Zebrafish, Bovine, Monkey, 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 p38 MAPK 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 p38 MAPK which includes phosphorylated threonine180 and tyrosine 182.
External Database Links	**UniProt:** P70618 Related reagents **Entrez Gene:** 81649 Mapk14 Related reagents
Synonyms	Csbp1, Csbp2
RRID	AB_567185
Specificity	**Rabbit anti Rat p38 MAPK (pThr180/pTyr182) antibody** recognizes mitogen-activated protein kinase p38 (p38 MAPK), also known as mitogen-activated protein kinase 14 (MAPK 14), when phosphorylated at threonine 180 and tyrosine 182. p38 MAPK is a serine/threonine kinase which plays an important role in signal transduction, contributing to the regulation of many cellular processes including cell differentiation and inflammation. p38MAPK is activated by phosphorylation of threonine 180 and tyrosine 182, by several upstream kinases, in response to a wide range of extracellular stimuli such as UV B irradiation or endotoxin exposure.
Western Blotting	AHP905 recognises a band of approximately 39kD in Western blots of anisomycin C-6 glioma cell lysates.
References	1. Suzuki, K. and Namiki, H. (2012) Restraint of spreading-dependent activation of polymorphonuclear leukocyte NADPH oxidase in an acidified environment. J Cell Biochem. 113: 899-910. 2. Yun, M.H. *et al.* (2014) Sustained ERK activation underlies reprogramming in regeneration-competent salamander cells and distinguishes them from their mammalian counterparts. Stem Cell Reports. 3: 15-23.
Further Reading	1. Raingeaud, J. *et al.* (1995) Pro-inflammatory cytokines and environmental stress cause p38 mitogen-activated protein kinase activation by dual phosphorylation on tyrosine and threonine. J Biol Chem. 270 (13): 7420-6.

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
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories
Health And Safety Information	Material Safety Datasheet documentation #10088 available at: https://www.bio-rad-antibodies.com/SDS/AHP905 10088
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP

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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

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