

## Datasheet: AHP905

**BATCH NUMBER 158160**

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

**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.

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**Buffer Solution** 10mM HEPES pH7.5

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**Preservative** 0.09% Sodium Azide  
**Stabilisers** 0.01% Bovine Serum Albumin  
50% Glycerol

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**Immunogen** Synthetic phosphopeptide corresponding to an amino acid sequence within p38 MAPK which includes phosphorylated threonine180 and tyrosine 182.

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**External Database Links**

**UniProt:**

[P70618](#)

[Related reagents](#)

**Entrez Gene:**

[81649](#)

Mapk14

[Related reagents](#)

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**Synonyms** Csbp1, Csbp2

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**RRID** AB\_567185

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**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.

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**Western Blotting** AHP905 recognises a band of approximately 39kD in Western blots of anisomycin C-6 glioma cell lysates.

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**References**

1. 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.](#)
2. 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.](#)

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**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.](#)

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<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10088 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP90510088">https://www.bio-rad-antibodies.com/SDS/AHP90510088</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- 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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 'M364360:200529'

Printed on 20 Mar 2025