

## Datasheet: AHP905

<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)	■			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, serine 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.**

<b>Target Species</b>	Rat
<b>Species Cross Reactivity</b>	Reacts with: Human, Newt Based on sequence similarity, is expected to react with: Chicken, Zebrafish, Bovine, Monkey, Mouse, Dog <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to phosphorylated rat p38 MAPK were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	10mM HEPES pH7.5
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	0.01% Bovine Serum Albumin

50% Glycerol

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<b>Immunogen</b>	Synthetic phosphopeptide corresponding to an amino acid sequence within p38 MAPK which includes phosphorylated threonine180 and tyrosine 182.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P70618</a> <a href="#">Related reagents</a>
	<b>Entrez Gene:</b> <a href="#">81649</a> Mapk14 <a href="#">Related reagents</a>

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<b>Synonyms</b>	Csbp1, Csbp2
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<b>Specificity</b>	<p><b>Rabbit anti Rat p38 MAPK (pThr180/pTyr182) antibody</b> 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.</p> <p>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.</p> <p>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.</p>
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<b>Western Blotting</b>	AHP905 recognises a band of approximately 39kD in Western blots of anisomycin C-6 glioma cell lysates.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Yun, M.H. <i>et al.</i> (2014) Sustained ERK activation underlies reprogramming in regeneration-competent salamander cells and distinguishes them from their mammalian counterparts. <a href="#">Stem Cell Reports. 3: 15-23.</a></li><li>2. Suzuki, K. and Namiki, H. (2012) Restraint of spreading-dependent activation of polymorphonuclear leukocyte NADPH oxidase in an acidified environment. <a href="#">J Cell Biochem. 113: 899-910.</a></li></ol>
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<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Raingeaud, J. <i>et al.</i> (1995) Pro-inflammatory cytokines and environmental stress cause p38 mitogen-activated protein kinase activation by dual phosphorylation on tyrosine and threonine. <a href="#">J. Biol. Chem. 270: 7420-7426.</a></li></ol>
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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.
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<b>Shelf Life</b>	12 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10088 available at: 10088: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## 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@680](#), [DyLight@800](#)

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