

## Datasheet: AHP1302

<b>Description:</b>	RABBIT ANTI MEK 5 (pSer311/pThr315)
<b>Specificity:</b>	MEK 5 (pSer311/pThr315)
<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

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

Rat

### Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Dog, Primate, Xenopus, Zebrafish, Human, Bovine, Chicken

**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 MEK5 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.

### Buffer Solution

10mM HEPES pH7.5, 150mM NaCl

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 0.01% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Synthetic phosphopeptide corresponding to an amino acid sequence within MEK5 , which includes the phosphorylated residues Ser311 and Thr315.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q62862</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">29568</a> Map2k5 <a href="#">Related reagents</a>
<b>Synonyms</b>	Mek5, Mkk5, Prkmk5
<b>RRID</b>	AB_906184
<b>Specificity</b>	<p><b>Rabbit anti Rat MEK 5 (pSer311/pThr315) antibody</b> recognizes MAPK/ERK kinase 5 (MEK 5), also known as dual specificity mitogen-activated protein kinase kinase 5 (MAPKK 5), when phosphorylated at serine 311 and threonine 315.</p> <p>MEK5 is a dual specificity serine/threonine protein kinase belonging to the MAP kinase kinase family, which acts as a key regulator in a mitogen-activated protein (MAP) kinase cascade, and hence growth factor-induced cellular stimulation. MEK5 exists in naturally occurring MEK5alpha and MEK5beta splice variants, the former of which is known to specifically activate/regulate MAPK7/ERK5/BMK1, whilst the latter may act as a suppressor of MAPK7 activation. Activation of MEK5 itself is regulated by upstream MAP3K3/MEKK3, and phosphorylation of MEK5 at both the serine 311 and threonine 315 sites has been implicated in cell proliferation.</p>
<b>Western Blotting</b>	AHP1302 detects a band of approximately 49kDa in rat testes cell lysates.
<b>References</b>	1. Cameron, S.J. <i>et al.</i> (2004) Differential role of MEK5alpha and MEK5beta in BMK1/ERK5 activation. <a href="#">J Biol Chem. 279 (2): 1506-12.</a>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10088 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1302">https://www.bio-rad-antibodies.com/SDS/AHP1302</a> 10088

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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