

Datasheet: AHP1302

Description:	RABBIT ANTI MEK 5 (pSer311/pThr315)
Specificity:	MEK 5 (pSer311/pThr315)
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)	■			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.

(1) For the detection of phosphoproteins, tyrosine phosphatase inhibitors such as 1mM Sodium Orthovanadate 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.

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.
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
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 0.01% Bovine Serum Albumin 50% Glycerol

Immunogen Synthetic phosphopeptide corresponding to an amino acid sequence within MEK5 , which includes the phosphorylated residues Ser311 and Thr315.

External Database Links

UniProt:
[Q62862](#) [Related reagents](#)

Entrez Gene:
[29568](#) Map2k5 [Related reagents](#)

Synonyms Mek5, Mkk5, Prkmk5

Specificity **Rabbit anti Rat MEK 5 (pSer311/pThr315) antibody** 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.

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.

Western Blotting AHP1302 detects a band of approximately 49kDa in rat testes cell lysates.

References 1. Cameron, S.J. *et al.* (2004) Differential role of MEK5alpha and MEK5beta in BMK1/ERK5 activation. [J Biol Chem. 279 \(2\): 1506-12.](#)

Storage 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.

Shelf Life 12 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10088 available at:
10088: <https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf>

Regulatory For research purposes only

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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