

Datasheet: AHP2649

Description:	RABBIT ANTI MEK 1 (pSer221)
Specificity:	MEK 1 (pSer221)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

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
Immunohistology - Paraffin	▪			1/50 - 1/100
Western Blotting	▪			1/500 - 1/2000

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

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat

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

Antiserum to MEK 1 (pSer221) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.02% Sodium Azide
50% Glycerol

Immunogen

Phospho specific-peptide corresponding to residues surrounding serine 221 of human

MEK 1

External Database

Links

UniProt:

[Q02750](#)

[Related reagents](#)

Entrez Gene:

[5604](#)

MAP2K1

[Related reagents](#)

Synonyms

MEK1, PRKMK1

Specificity

Rabbit anti MEK 1 (pSer221) antibody recognizes MAPK/ERK kinase 1 (MEK 1), also known as dual specificity mitogen-activated protein kinase kinase 1, MAP kinase kinase 1 (MAPKK 1) and ERK activator kinase 1, when phosphorylated at serine 221.

MEK 1 is an integral component of the MAP kinase cascade that regulates cell growth and differentiation, and may also play a role in brain synaptic plasticity.

MEK1 is phosphorylated at serine 217 and serine 221 by Raf kinases, increasing MEK1 activity ([Matallanas *et al.* 2011](#)) and subsequently leading to activation of ERK1/2.

Further Reading

1. Matallanas, D. *et al.* (2011) Raf family kinases: old dogs have learned new tricks. [Genes Cancer. 2 \(3\): 232-60.](#)

Storage

Store at -20°C

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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10049 available at:
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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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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