

Datasheet: VMA00010

BATCH NUMBER 166320

Description:	HUMAN ANTI MEK 1
Specificity:	MEK 1
Other names:	Mitogen Activated Protein Kinase 1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AbD5812
Isotype:	HuCAL Fab bivalent
Quantity:	100 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
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	Human
Product Form	A bivalent human recombinant Fab selected from the HuCAL GOLD phage display library, expressed in <i>E. coli</i> . This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This product is supplied as a liquid.
Preparation	Recombinant human monoclonal antibody purified by metal chelate affinity chromatography
Source	<i>E.coli</i>
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)

Stabilisers

Approx. Protein Concentrations F(ab')₂ concentration 0.5 mg/ml

Immunogen Full length recombinant human MEK 1 expressed in Sf9 cells

External Database Links**UniProt:**

[Q02750](#) [Related reagents](#)

Entrez Gene:

[5604](#) MAP2K1 [Related reagents](#)

Synonyms MEK1, PRKMK1

Specificity

Human anti Human MEK 1 antibody recognizes human dual specificity mitogen-activated protein kinase kinase 1, also known as MEK 1 or MAPKK1. MEK 1 is a 393 amino acid, dual specificity protein kinase which has the ability to phosphorylate both threonine and tyrosine residues. MEK1 acts downstream of Ras and Raf and is responsible for the phosphorylation of extracellular signal-regulated kinase (ERK) mitogen-activated protein kinase (MAPK). It is an integral component of the MAP kinase signalling cascade that regulates cell growth and differentiation, and may also play a role in brain synaptic plasticity.

Human anti Human MEK 1 antibody recognizes human MEK1 as a band of ~42 kDa in multiple human cell line lysates by western blotting under reducing conditions.

Western Blotting Anti MEK 1 antibody detects a band of approximately 42 kDa in Jurkat cell lysates.

Storage 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.

Avoid repeated freezing and thawing as this may denature the protein. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

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His-tag is a registered trademark of EMD Biosciences.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00010>
Antibody (10040)

Related Products

Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Goat Anti Human IgG F(ab')₂ (STAR126...) [HRP](#)

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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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