

Datasheet: VMA00010KT

Description:	MEK 1 ANTIBODY WITH CONTROL LYSATE
Specificity:	MEK 1
Other names:	Mitogen Activated Protein Kinase 1
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Isotype:	HuCAL Fab bivalent
Quantity:	2 Westerns

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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant 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	20µl Recombinant human monoclonal antibody purified by metal chelate affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Full length recombinant human MEK 1 expressed in Sf9 cells
External Database Links	<p>UniProt: Q02750 Related reagents</p> <p>Entrez Gene: 5604 MAP2K1 Related reagents</p>

Synonyms	MEK1, PRKMK1
Specificity	<p>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.</p> <p>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.</p>
Western Blotting	Anti MEK 1 antibody detects a band of approximately 42 kDa in Jurkat cell lysates.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
Lysate Composition	400µg Jurkat lysate lyophilized in RIPA buffer.
Lysate Reconstitution	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
Storage	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
Guarantee	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories. His-tag is a registered trademark of EMD Biosciences.
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 #10561 available at:</p> <p>Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</p> <p>Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</p>
Regulatory	For research purposes only

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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