Datasheet: VMA00010

<table>
<thead>
<tr>
<th>Description:</th>
<th>HUMAN ANTI MEK 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>MEK 1</td>
</tr>
<tr>
<td>Other names:</td>
<td>Mitogen Activated Protein Kinase 1</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>PrecisionAb™ Monoclonal</td>
</tr>
<tr>
<td>Isotype:</td>
<td>HuCAL Fab bivalent</td>
</tr>
<tr>
<td>Quantity:</td>
<td>100 µl</td>
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</tbody>
</table>

### 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).

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td>1/1000</td>
</tr>
</tbody>
</table>

**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 *E. coli*. 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

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)

**Immunogen**

Full length recombinant human MEK 1 expressed in Sf9 cells

**External Database Links**

- UniProt: [Q02750](https://www.uniprot.org/uniprot/Q02750) Related reagents
- Entrez Gene: [5604](https://www.ncbi.nlm.nih.gov/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.

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.

Storage
Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Shelf Life
As supplied, 12 months from date of despatch.

Acknowledgements
Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.

PrecisionAb™ is a trademark of Bio-Rad Laboratories. His-tag is a registered trademark of EMD Biosciences.

Health And Safety Information
Material Safety Datasheet documentation #10040 available at:

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