

Datasheet: VMA00714

**BATCH NUMBER 100004600**

<b>Description:</b>	MOUSE ANTI MAPK8/JNK1 (pThr183/pTyr185)
<b>Specificity:</b>	MAPK8/JNK1 (pThr183/pTyr185)
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	D04/7G6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting	▪			1/500

**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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Synthetic peptide corresponding to the phosphorylated sites

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P45983</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">5599</a> MAPK8 <a href="#">Related reagents</a>
<b>Synonyms</b>	JNK1, PRKM8, SAPK1
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Human MAPK8/JNK1 (pThr183/pTyr185) antibody</b> recognizes mitogen-activated protein kinase 8, also known as JUN N-terminal kinase, c-Jun N-terminal kinase 1, mitogen-activated protein kinase 8 isoform JNK1 alpha1, mitogen-activated protein kinase 8 isoform JNK1 beta 2 and stress-activated protein kinase 1c, when phosphorylated at threonine 183 and tyrosine 187.</p> <p>Encoded by the MAPK8/JNK1 gene, mitogen-activated protein kinase 8 is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrome c-mediated cell death pathway. Studies of the mouse counterpart of MAPK8 suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation (provided by RefSeq, Jun 2013). Activation of MAPK8/JNK1 requires phosphorylation at threonine 183 and tyrosine 185 (<a href="#">Zheng et al. 1999</a>).</p> <p>Mouse anti Human MAPK8/JNK1 (pThr183/pTyr185) antibody detects a band of 44/52 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
<b>Western Blotting</b>	Mouse anti MAPK8/JNK1 (pThr183/pTyr185) detects bands of approximately 44 & 52 kDa in UV-treated HEK293 cell lysates
<b>Further Reading</b>	1. Sehgal, V. & Ram, P.T. (2013) Network Motifs in JNK Signaling. <a href="#">Genes Cancer. 4 (9-10): 409-13.</a>
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety</b>	Material Safety Datasheet documentation #10040 available at:

**Information**      <https://www.bio-rad-antibodies.com/SDS/VMA00714>  
Antibody (10040)

---

**Regulatory**      For research purposes only

---

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

**North & South**    Tel: +1 800 265 7376

**America**            Fax: +1 919 878 3751

                          Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

                          Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

                          Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M386014:210517'

**Printed on 13 Aug 2023**

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)