

Datasheet: VMA00714

Description:	MOUSE ANTI MAPK8/JNK1 (pThr183/pTyr185)
Specificity:	MAPK8/JNK1 (pThr183/pTyr185)
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	D04/7G6
Isotype:	IgG1
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
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.

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

**External Database
Links**

UniProt:

[P45983](#) [Related reagents](#)

Entrez Gene:

[5599](#) MAPK8 [Related reagents](#)

Synonyms

JNK1, PRKM8, SAPK1

Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity

Mouse anti Human MAPK8/JNK1 (pThr183/pTyr185) antibody 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.

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. The mouse counterpart of MAPK8 suggests that this kinase plays 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 ([Zheng et al. 1999](#)).

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.

Western Blotting

Mouse anti MAPK8/JNK1 (pThr183/pTyr185) detects bands of approximately 44 & 52 kDa in UV-treated HEK293 cell lysates

Further Reading

1. Sehgal, V. & Ram, P.T. (2013) Network Motifs in JNK Signaling. [Genes Cancer. 4 \(9-10\): 409-13.](#)

Storage

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

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:

Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: 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

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: 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)

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