

Datasheet: VMA00713

Description:	MOUSE ANTI ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187)
Specificity:	ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187)
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	F04/4G10
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
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	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:

[P27361](#) [Related reagents](#)
[P28482](#) [Related reagents](#)

Entrez Gene:

[5595](#) MAPK3 [Related reagents](#)
[5594](#) MAPK1 [Related reagents](#)

Synonyms	ERK1, ERK2, PRKM1, PRKM2, PRKM3
-----------------	---------------------------------

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

Specificity	<p>Mouse anti Human ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187) antibody recognizes ERK1, also known as MAPK3, when phosphorylated at threonine 202 and tyrosine 204, and ERK2, also known as MAPK1, when phosphorylated at threonine 185 and tyrosine 187.</p> <p>MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. ERK1/2 are proline-directed kinases that preferentially catalyze the phosphorylation of substrates containing a Pro-Xxx-Ser/Thr-Pro sequence (provided by RefSeq, Jul 2008). ERK1/2 are activated by phosphorylation by MAPK or ERK kinases (MEKs): ERK1 on threonine 202 and tyrosine 204 and ERK2 on threonine 185 and tyrosine 187 (Butch and Guan 1996).</p> <p>Mouse anti Human ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187) antibody detects bands of 42 and 44 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
--------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Western Blotting	Mouse anti ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187) detects bands of approximately 42 & 44 kDa in EGF-treated HEK293 cell lysates
-------------------------	----------------------------------------------------------------------------------------------------------------------------------------

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

'M378838:210305'

Printed on 18 May 2021

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)