

Datasheet: VMA00713

**BATCH NUMBER 100004599**

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

<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

**External Database  
Links**

**UniProt:**

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

**Entrez Gene:**

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

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<b>Synonyms</b>	ERK1, ERK2, PRKM1, PRKM2, PRKM3
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<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
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<b>Specificity</b>	<p><b>Mouse anti Human ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187) antibody</b> 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 (<a href="#">Butch and Guan 1996</a>).</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>
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<b>Western Blotting</b>	Mouse anti ERK1 (pThr202/pTyr204)/ERK2 (pThr185/pTyr187) detects bands of approximately 42 & 44 kDa in EGF-treated HEK293 cell lysates
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<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00713">https://www.bio-rad-antibodies.com/SDS/VMA00713</a> Antibody (10040)
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

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

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

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

'M374123:201019'

Printed on 25 Mar 2023

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