

Datasheet: VMA00713 BATCH NUMBER 100004599

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 μΙ

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	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.
	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-Prosequence (provided by RefSeq, Jul 2008). ERK1/2 are activated by phosphorylation by

(s), act in a iferation, acellular signals. n to the nucleus ases that o-Xxx-Ser/Thr-Pro sphorylation 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).

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.

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: https://www.bio-rad-antibodies.com/SDS/VMA00713 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
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

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 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
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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 'M374123:201019'

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