

Datasheet: VMA00485KT

Description:	ERK1/2 ANTIBODY WITH CONTROL LYSATE
Specificity:	ERK1/2
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	lgG2a
Quantity:	2 Westerns

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

PrecisionAb antibodies have been extensively <u>validated for the western blot</u> <u>application.</u> The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human	
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species reactivity is derived from testing within our laboratories, peer-reviewed purpersonal communications from the originators. Please refer to references further information.	blications or
Product Form	Purified IgG - liquid	
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography on F tissue culture supernatant	Protein G from
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)	

Immunogen	Purified His-tagged ERK 1/2 protein
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
Specificity	Mouse anti Human ERK1/2 antibody recognizes ERK1/2, also known as MAPK3/1. 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. Alternatively spliced transcript variants encoding different protein isoforms have been described (provided by RefSeq, Jul 2008). Mouse anti Human ERK1/2 antibody detects bands of 42 and 44 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.
Western Blotting	Anti ERK1/2 detects bands of approximately 42 and 44 kDa in NIH/3T3 cell lysate
Instructions For Use	Please refer to the <u>PrecisionAb western blotting protocol.</u> For additional information on secondary antibody dilution and exposure time see product web page.
Lysate Composition	400μg NIH/3T3 lysate lyophilized in RIPA buffer.
Lysate Reconstitution	- If using DDT reconstitute the lyophilized lysate with 190µl DI H ₂ O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT If using BME reconstitute the lyophilized lysate with 180µl DI H ₂ O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. Heat at 95�C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.
Storage	Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles. Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.
Guarantee	As supplied, 12 months from date of despatch.

Acknowledgements	PrecisionAb� is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10040 #10561 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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 Tel: +1 800 265 7376
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 Europe
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