

Datasheet: VMA00383

Description:	MOUSE ANTI ERK5
Specificity:	ERK5
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI3D4
Isotype:	IgG2a
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 purified by affinity chromatography from ascites.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 50% Glycerol
Approx. Protein Concentrations	IgG concentration 0.35 mg/ml.
Immunogen	Full length recombinant human ERK5 (NP_002740) produced in HEK293T cells

**External Database
Links**

UniProt:

[Q13164](#) [Related reagents](#)

Entrez Gene:

[5598](#) MAPK7 [Related reagents](#)

Synonyms

BMK1, ERK5, PRKM7

Specificity

Mouse anti Human ERK5 antibody, clone OTI3D4 recognizes extracellular signal-regulated kinase 5 (ERK5), also known as mitogen-activated protein kinase 7 (MAPK7), BMK-1, BMK1 kinase and big MAP kinase 1

Encoded by the MAPK7 gene, ERK5 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 specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracellular signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of MAPK7 encoding two distinct isoforms have been reported (provided by RefSeq, Jul 2008).

Mouse anti Human ERK5 antibody detects a band of 115 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti ERK5 detects a band of approximately 115 kDa in 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 #10048 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00383>
Antibody (10048)

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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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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