

## Datasheet: VMA00792

<b>Description:</b>	MOUSE ANTI RPS6KB1
<b>Specificity:</b>	RPS6KB1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	CD04/4D3
<b>Isotype:</b>	IgG2a
<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
Immunoprecipitation	▪			
Western Blotting	▪			1/2000

**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

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - Liquid

### Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative

0.09% Sodium Azide

**Stabilisers**

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**Approx. Protein Concentrations** IgG concentration 1.0 mg/ml

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**Immunogen** *E. coli*-derived recombinant protein of amino acids 416-525 of human RPS6KB1

**External Database Links****UniProt:**

[P23443](#)    [Related reagents](#)

**Entrez Gene:**

[6198](#) RPS6KB1    [Related reagents](#)

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**Synonyms** STK14A

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

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**Specificity** **Mouse anti RPS6KB1 antibody** recognizes ribosomal protein S6 kinase beta-1, also known as S6K1 and STK14A.

RPS6KB1 is a ribosomal serine/threonine kinase regulated by the PI3K/mTOR pathway ([Chen et al. 2017](#)). This protein has been linked to a range of cellular processes including glucose homeostasis, mRNA processing, protein synthesis, cell growth and survival. RPS6KB1 becomes activated by phosphorylation at a variety of serine or threonine residues. It also may be a driver of tumor initiation and progression, and inactivation of RPS6KB1 has been suggested as a therapy for many cancers ([Wang-Bishop et al. 2019](#)). Hyperactivation of RPS6KB1, rather than overexpression, has been found to predict poor prognosis in patients with non-small cell lung cancer ([Chen et al. 2017](#)). In prostate cancer cell lines, miR-195 has been found to target RPS6KB1 and has been suggested as a potential therapeutic target ([Cai et al. 2015](#)).

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**Western Blotting** Mouse anti RPS6KB1 antibody detects a band of approximately 73 and 65 kDa in HeLa cell lysates

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**Storage** Store undiluted at -20°C, avoiding repeated freeze thaw cycles

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** PrecisionAb is a trademark of Bio-Rad Laboratories

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00792>  
Antibody (10040)

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**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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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)

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