Datasheet: VMA00792

BATCH NUMBER 100004259

Description:	MOUSE ANTI RPS6KB1
Specificity:	RPS6KB1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD04/4D3
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
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 Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
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
Synonyms	STK14A
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
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).
Western Blotting	Mouse anti RPS6KB1 antibody detects a band of approximately 73 and 65 kDa in HeLa 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/VMA00792 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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

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