

Datasheet: VMA00956

Description:	MOUSE ANTI AKT3
Specificity:	AKT3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	I02/2H9
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

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	<i>E. coli</i> -derived recombinant protein of amino acids 1-479 of human AKT3
External Database Links	<p>UniProt: Q9Y243 Related reagents</p> <p>Entrez Gene: 10000 AKT3 Related reagents</p>
Synonyms	PKBG
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	Mouse anti AKT3 antibody recognizes RAC-gamma serine/threonine-protein kinase, also known as PKB gamma. AKT is a serine/threonine kinase which regulates multiple cellular processes. Each of the three AKT isoforms shows a different tissue distribution, with AKT3 predominantly expressed in the brain (DuBois et al. 2019). The AKT isoforms also appear to have distinct functions, with AKT3 playing a critical role in the central nervous system (Xia et al. 2019). Deletion of AKT3 reduces brain size, indicating a role for AKT3 in regulation of central nervous system growth (Miao et al. 2016). Mutations in the gene encoding AKT3 have been associated with a range of developmental disorders of the brain, including megalencephaly (Alcantara et al. 2017). AKT3 overexpression has been identified in melanoma, and a tumor-promoting role for AKT3 has been found in colorectal cancer (Fang et al. 2018).
Western Blotting	Mouse anti AKT3 detects a band of approximately 61 kDa in A172 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: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.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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To
find a

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

'M394621:220215'

Printed on 21 Mar 2022

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