Datasheet: MCA6307

BATCH NUMBER 155779

Description:	RABBIT ANTI AKT1
Specificity:	AKT1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM252
Isotype:	IgG
Quantity:	0.1 ml

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
Immunohistology - Paraffin	▪			1/500 - 1/1000
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with:Rat, Mouse, Bovine
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

Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide

Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	A synthetic peptide corresponding to the C-terminus of Human Akt1
External Database Links	**UniProt:** P31749 Related reagents **Entrez Gene:** 207 AKT1 Related reagents
Synonyms	PKB, RAC
Specificity	**Rabbit anti Human Akt antibody** recognizes RAC-alpha serine/threonine-protein kinase, also known as Protein Kinase B alpha, proto-oncogene c-Akt, RAC. The Akt family comprises three serine-threonine kinases, Akt1, Akt2, and Akt3, which play important roles in cell survival and proliferation (Barnett et al. 2005). The PI3K/Akt signaling pathway is activated by growth factors, which in turn activates Akt1, and regulates cell survival during stress (Hemmings and Restuccia et al. 2012). More specifically, Akt1 is activated by phosphorylation at serine 473 and threonine 308 (Balasuriya et al. 2018). Transforming somatic mutations in Akt1 have been reported in a number of tumor types (Jansen et al. 2017). Accordingly, Akt1 is an oncogene that is over-expressed in most human cancers, and is linked to poor survival. Inhibition of Akt1 is therefore of interest for cancer treatment (Balasuriya et al. 2018).
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10048 available at: https://www.bio-rad-antibodies.com/SDS/MCA6307 10048
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	FITC
Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP

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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