

# Datasheet: MCA6307

Description:	RABBIT ANTI AKT1
Specificity:	AKT1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM252
lsotype:	lgG
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		Yes	No	Not Determined	Suggested Dilution		
	Immunohistology - Paraffin	-			1/500 - 1/1000		
	Western Blotting	-			1/1000 - 1/2000		
	Where this product has r	not been te	ested for u	use in a particular tech	nique 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	e negative	/positive c	ontrols.			
Target Species	Human						
Species Cross Reactivity	Based on sequence similarity, is expected to react with:Rat, Mouse, Bovine <b>N.B.</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 salin	e					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Album	nin					

	50% Glycerol			
Immunogen	A synthetic peptide corresponding to the C-terminus of Human Ak	xt1		
External Database Links	UniProt: P31749 Related reagents			
	Entrez Gene: 207 AKT1 <u>Related reagents</u>			
Synonyms	PKB, RAC			
Specificity	<b>Rabbit anti Human Akt antibody</b> 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 ( <u>Barnett et al. 2005</u> ). The PI3K/Akt signaling pathway is activated by growth factors, which in turn activates Akt1, and regulates cell survival during stress ( <u>Hemmings and Restuccia et al. 2012</u> ). More specifically, Akt1 is activated by phosphorylation at serine 473 and threonine 308 ( <u>Balasuriya et al. 2018</u> ). Transforming somatic mutations in Akt1 have been reported in a number of tumor types ( <u>Jansen et al. 2017</u> ). 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 ( <u>Balasuriya et al. 2018</u> ).			
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product cont recommend microcentrifugation before use	ain a precipitate we		
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**

Goat Anti Rabbit IgG (H/L) (STAR124...)HRPSheep Anti Rabbit IgG (STAR35...)RPEGoat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRP

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-	rad.com	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 'M437615:250317'

#### Printed on 17 Mar 2025

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