

Datasheet: MCA6327

Description:	RABBIT ANTI AMPK ALPHA 1
Specificity:	AMPK ALPHA 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM301
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-</u> rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Immunohistology - Paraffin				1/100 - 1/200		
	Western Blotting	-			1/100 - 1/200		
	Where this product has n	ot been t	ested for	use in a particular tech	nique this does not		
	necessarily exclude its us a guide only. It is recomn system using appropriate	nended th	at the us	er titrates the product f			
Target Species	Human						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by culture supernatant	affinity cł	nromatog	raphy of Protein A from	n animal origin-free		
Buffer Solution	Phosphate buffered salin	е					
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum Album	in					
	50% Glycerol						
Immunogen	A peptide corresponding	to the res	idues ne	ar the C-terminus of Hu	uman AMPK alpha 1		
External Database Links	UniProt:						

	Q13131 Related reagents					
	Entrez Gene:					
	5562 PRKAA1 Related reagents					
Synonyms	AMPK1					
Specificity	Rabbit anti Human AMPK alpha 1 antibody recognizes 5'-AMP-activated protein kinase catalytic subunit alpha-1, also known as PRKAA1, AMPK1. AMPK is a highly conserved heterotrimeric protein kinase found in all eukaryotes. The heterotrimeric complex exists as multiple isoforms and consists of a catalytic alpha subunit (alpha 1 and alpha 2), which is stabilized by non-catalytic regulatory beta- and gamma- subunits (Yan et al. 2018). AMPK responds to changes in intracellular adenine nucleotide levels, regulating cellular energy balance. AMPK is activated by an increase in AMP/ADP relative to ATP, and leads to an increase in rate of catabolic (ATP-generating) pathways and decreases rate of anabolic (ATP-utilizing) pathways (Carling et al. 2017). This results in maintenance of cellular energy homeostasis under conditions of hypoxia, low glucose levels, oxidative stress. Evidence suggests that AMPK acts as a tumor suppressor and has been suggested as a target for therapy, opposing tumor progression in several cancer types in part by regulating metabolism and inflammation (Li et al. 2015).					
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/MCA6327 10048					
Regulatory	For research purposes only					

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)FITCGoat Anti Rabbit IgG (H/L) (STAR124...)HRPGoat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRPSheep Anti Rabbit IgG (STAR35...)RPESheep Anti Rabbit IgG (STAR36...)DyLight®488, DyLight®680, DyLight®800

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	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-ra	ad.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 'M376313:210127'

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