Datasheet: 2400-1942

Description:	MOUSE ANTI HUMAN CREATINE PHOSPHOKINASE (BB)
Specificity:	CREATINE PHOSPHOKINASE (BB)
Other names:	CKBB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	BGN/2ba6
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

RRID	AB_617232
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
ELISA	▪			

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 the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human CKBB
External Database Links	**UniProt:** P12277 Related reagents

	Entrez Gene: 1152 CKB Related reagents
Synonyms	CKBB
Specificity	**Mouse anti human creatine phosphokinase, clone BGN/2ba6** recognizes creatine phosphokinase. Also known as creatine kinase (CK), it is a dimer with a molecular mass of approximately 80 kDa. In vertebrate cells, the cytosolic CK enzymes consist of two different subunits, either B (brain type) or M (muscle type). They combine to produce three different isoenzymes: CKMM, CKBB and CKMB. CKBB is the major CK isoenzyme of the brain (Eppenberger *et al*, 1967, Dawson *et al*, 1967). Creatine phosphokinase is an enzyme expressed in tissues and cell types with high energy requirements and is involved in cellular energy homeostasis. CK reversibly catalyzes the conversion of creatine and consumes adenosine triphosphate (ATP) to create phosphocreatine and adenosine diphosphate (ADP) (Wallimann *et al*, 1992, 2011). Mouse anti human creatine phosphokinase is specific for the CKBB isoenzyme and does not react with the B subunit in CKMB. There is minimal reactivity with other human serum proteins.
Further Reading	1. Wallimann, T. *et al.* (2011) The creatine kinase system and pleiotropic effects of creatine. Amino Acids. 40(5):1271-96. 2. Wallimann, T. *et al.* (1992) Intracellular compartmentation, structure and function of creatine kinase isoenzymes in tissues with high and fluctuating energy demands: the 'phosphocreatine circuit' for cellular energy homeostasis. Biochem J. 281: 21-40. 3. Eppenberger, H.M. *et al.* (1967) The comparative enzymology of creatine kinases. I. Isolation and characterization from chicken and rabbit tissues. J Biol Chem. 242: 204-209. 4. Dawson, D.M. *et al.* (1967) The comparative enzymology of creatine kinases. II. Physical and chemical properties. J Biol Chem. 242: 210-217.
Storage	Store at +4^{o}C or at -20^{o}C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 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 IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800

Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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

'M336683:181214'

Printed on 02 Jan 2019