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Creatine kinase B type Recombinant Rabbit mAb

Catalog # AP100284

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	P06732
Other Accession	P06732
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	43101
Physical State	Liquid
Immunogen	A synthesized peptide derived from human Creatine kinase B type
Epitope Specificity	50-100/381
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the ATP:guanido phosphotransferase family.Contains 1 phosphagen kinase C-terminal domain.Contains 1 phosphagen kinase N-terminal domain.
SUBUNIT	Dimer of identical or non-identical chains. With MM being the major form in skeletal muscle and myocardium, MB existing in myocardium, and BB existing in many tissues, especially brain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa (Probable). Acts as a key regulator of adaptive thermogenesis as part of the futile creatine cycle: localizes to the mitochondria of thermogenic fat cells and acts by mediating phosphorylation of creatine to initiate a futile cycle of creatine phosphorylation and dephosphorylation.

Additional Information

Gene ID	1158
Other Names	B-CK; BCK; CKBB; CPK-B; HEL-211; HEL-S-29; CKMM; CPK-M; M-CK; KCRM_HUMAN; CKM; Creatine kinase M chain; Creatine phosphokinase M-type (CPK-M); 2.7.3.2; KCRB_HUMAN; CKB; Brain creatine kinase (B-CK); Creatine kinase B chain; Creatine phosphokinase B-type (CPK-B); creatine kinase B; creatine kinase, brain; creatine kinase brain-type
Dilution	WB=1:500-2000,IHC-P=1:50-200,IHC-F=1:50-200,ICC/IF=1:50-200,IF=1:50-200,IP=1:20-50,Flow-Cyt=1:50-100

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CKM
Synonyms	CKMM
Function	Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.
Cellular Location	Cytoplasm.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.