Creatine Kinase B Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	Creatine Kinase B (CKB), Blocking Peptide
Full Product Name	Creatine Kinase B Antibody (C-term) Blocking peptide
Product Gene Name	CKB blocking peptide
Product Synonym Gene Name	CKBB
Product Synonym Names	Creatine kinase B-type; B-CK; Creatine kinase B chain; CKB; CKBB
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the Center region of human CKB. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Creatine Kinase B peptide (MBS9226542) is used for blocking the activity of Creatine Kinase B antibody (MBS9201269)
Molecular Weight	42,644 Da
OMIM	123280
Cellular Location	Cytoplasm.
Related Product Information for CKB blocking peptide	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.
Other Notes	Small volumes of CKB blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CKB purchase	MBS9226542 is a blocking peptide targeting CKB. Also known as Creatine Kinase B Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKB. It may not necessarily be applicable to this product.

NCBI GI #	125294
NCBI GeneID	1152
NCBI Accession #	P12277.1
UniProt Primary Accession #	P12277
UniProt Secondary Accession #	Q2LE07; Q6FG40; Q9UC66; A8K236; B2R5R4
UniProt Related Accession #	P12277
NCBI Official Full Name	Creatine kinase B-type
NCBI Official Synonym Full Names	creatine kinase B
NCBI Official Symbol	CKB

NCBI Official Synonym Symbols	BCK; B-CK; CKBB; HEL-211; HEL-S-29
UniProt Protein Name	Creatine kinase B-type
UniProt Synonym Protein Names	B-CK; Creatine kinase B chain
Protein Family	Creatine kinase
UniProt Gene Name	CKB
UniProt Synonym Gene Names	CKBB
UniProt Entry Name	KCRB_HUMAN
NCBI Protein Information	creatine kinase B-type
NCBI Summary for CKB	The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in brain as well as in other tissues, and as a heterodimer with a similar muscle isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. A pseudogene of this gene has been characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for CKB	CKB: 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. Belongs to the ATP:guanido phosphotransferase family. Protein type: Kinase, other; EC 2.7.3.2; Amino Acid Metabolism - arginine and proline Chromosomal Location of Human Ortholog: 14q32 Cellular Component: cytoplasm; cytosol; extracellular space Molecular Function: creatine kinase activity; protein binding; ubiquitin protein ligase binding Biological Process: creatine metabolic process; substantia nigra development
Research Articles on CKB	**1.** SRC, LYN and CKB expression or DNA methylation could be useful markers for predicting tumor progression.
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