Phospho-CKB (Ser199) Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	CKB, Blocking Peptide
Full Product Name	Phospho-CKB (Ser199) Blocking Peptide
Product Gene Name	CKB blocking peptide
Product Synonym Gene Name	CKB
Product Synonym Names	B CK; B-CK; BB-CK; BCK; Brain creatine kinase; Ckb; CKBB; Creatine kinase B; Creatine kinase B chain; Creatine kinase B type; Creatine kinase B-type; Creatine Kinase BB Isoenzyme; Creatine kinase brain; Creatine kinase brain type; Creatine phosphokinase BB; Epididymis luminal protein 211; Epididymis secretory protein Li 29; HEL 211; HEL S 29; KCRB_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
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	CKB (Ser199) peptide (MBS9619483) is used for blocking the activity of CKB (Ser199) antibody (MBS9614521)
Molecular Weight	381
OMIM	123280
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CKB blocking peptide	Blocking/Control
Related Product Information for CKB blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
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	MBS9619483 is a blocking peptide targeting CKB. Also known as Phospho-CKB (Ser199) 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, brain
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; creatine kinase-B; creatine kinase B chain; epididymis luminal protein 211; epididymis secretory protein Li 29
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: Amino Acid Metabolism - arginine and proline; EC 2.7.3.2; Kinase, other Chromosomal Location of Human Ortholog: 14q32 Cellular Component: mitochondrion; cytosol Molecular Function: protein binding; creatine kinase activity; ATP binding Biological Process: substantia nigra development; phosphorylation; creatine metabolic process; cellular chloride ion homeostasis
Research Articles on CKB	**1.** increased serum Ckbb reflects failure of osteoclasts or suppression of osteoclasts in children with osteogenesis imperfecta during neridronate treatment
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