

## Recombinant Human CKB

Cat. No. CKB-26521TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human Recombinant Full Length Creatine Kinase BB produced in Pichia Pastoris.
<b>Species</b>	Human
<b>Description</b>	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 phosphagens 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.
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 50% Glycerol, 10mM Bis-Tris HCl, 0.5mM EDTA, 0.5mM DTT, pH 6.2
<b>Storage</b>	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the ATP:guanido phosphotransferase family. Contains 1 phosphagen kinase C-terminal domain. Contains 1 phosphagen kinase N-terminal domain.
<b>Full Length</b>	Full L.

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## GENE INFORMATION

<b>Gene Name</b>	CKB creatine kinase, brain [ Homo sapiens ]
<b>Official Symbol</b>	CKB
<b>Synonyms</b>	CKB; creatine kinase, brain; CKBB; creatine kinase B-type;
<b>Gene ID</b>	1152
<b>mRNA Refseq</b>	NM_001823
<b>Protein Refseq</b>	NP_001814
<b>MIM</b>	123280
<b>Uniprot ID</b>	P12277
<b>Chromosome Location</b>	14q32.3
<b>Pathway</b>	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Creatine metabolism, organism-specific biosystem; Creatine pathway, organism-specific biosystem; Creatine pathway, conserved biosystem;
<b>Function</b>	ATP binding; creatine kinase activity; nucleotide binding;

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