

Active Native Human CKB protein

Cat. No. CKB-8079H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human CKB was purified in Human Brain.
Species	Human
Source	Human Brain
Description	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.
Form	50% Glycerol, 25 mM Imidazole, 1 mM DTE, pH 6.5.
Bio-activity	> 500 U/mL (Dimension® Clinical Chemistry System)
Unit Definition	One unit will transfer one micromole of phosphate from creatine phosphate to ADP per minute at 37 centigrade
Storage	Store at -20 centigrade.
Concentration	> 0.5 mg protein/mL (Coomassie)

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GENE INFORMATION

Gene Name	CKB creatine kinase, brain [Homo sapiens]
Official Symbol	CKB
Synonyms	CKB; creatine kinase, brain; CKBB; creatine kinase B-type; creatine kinase-B; creatine kinase B chain; B-CK;
Gene ID	1152
mRNA Refseq	NM_001823
Protein Refseq	NP_001814
MIM	123280
UniProt ID	P12277
Chromosome Location	14q32.32
Pathway	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; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	ATP binding; creatine kinase activity; nucleotide binding;

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