

## Active Native Human CKB protein

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

### SPECIFICATION

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

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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; creatine kinase-B; creatine kinase B chain; B-CK;
<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>	14q32.32
<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; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
<b>Function</b>	ATP binding; creatine kinase activity; nucleotide binding;

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