

## Product datasheet for **TP303669M**

### Creatine kinase B type (CKB) (NM\_001823) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human creatine kinase, brain (CKB), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC203669 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MPFSNSHNALKLRFPAEDEFDPDL SAHNNHMAKVLTPELYAELRAKSTPSGFTLDDVIQTGVDNPGHPYIM  
TVGCVAGDEESYEVFKDLDFDPIIEDRHGGYKPSDEHKTDLNPDLQGGDDLDPNYVLSRVRTGRSIRGF  
CLPPHCSRGERRAIEKLAVEALSSLDGDLAGRYYALKSMTEAEQQQLIDDHFLFDKPVSPLLLASGMARD  
WPDARGIWHNDNKTFLVWVNEEDHLRVISMQKGGNMKEVFRFCTGLTQIETLFKSKDYEFMWNPHLGYI  
LTCPSNLGTGLRAGVHIKLPNLGKHEKFSEVLKRLRLQKRGTGGVD TAAVGGVFDVSNADRLGFSEVELV  
QMVDGKLLIEMEQRLEQGQAIDDLMPAQK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 42.5 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001814](#)

**Locus ID:** 1152



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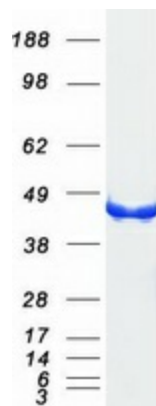
UniProt ID: [P12277](#), [V9HWH2](#)  
RefSeq Size: 1475  
Cytogenetics: 14q32.33  
RefSeq ORF: 1143  
Synonyms: B-CK; BCK; CKBB; CPK-B; HEL-211; HEL-S-29

**Summary:** 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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Arginine and proline metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified CKB protein (Cat# [TP303669]). The protein was produced from HEK293T cells transfected with CKB cDNA clone (Cat# [RC203669]) using MegaTran 2.0 (Cat# [TT210002]).