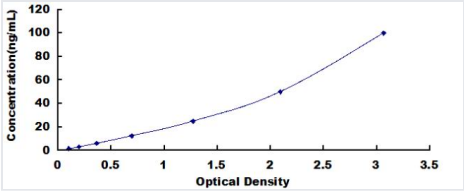
Creatine Kinase, Brain (CKB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Creatine Kinase, Brain (CKB), ELISA Kit
Full Product Name	Human Creatine Kinase, Brain (CKB) ELISA Kit
Product Gene Name	CKB elisa kit
Product Synonym Names	CK-BB; CKBB; CK-B; CK-1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates, Cell Culture Supernates or Other Biological Fluids.
Detection Range	1.56-100ng/mL
Sensitivity	0.58ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	42,644 Da
OMIM	123280
3D Structure	ModBase 3D Structure for P12277
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CKB elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CKB. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CKB. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CKB, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CKB in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CKB elisa kit 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	MBS458382 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Creatine Kinase, Brain (CKB) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CKB. The ELISA analytical biochemical technique of the MBS458382 kit is based on CKB antibody-CKB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CKB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CKB. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CKB elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKB. It may not necessarily be applicable to this product.

NCBI GI #	21536286
NCBI GeneID	1152
NCBI Accession #	NP_001814.2
UniProt Primary Accession #	P12277
UniProt Secondary Accession #	Q2LE07; Q6FG40; Q9UC66; A8K236; B2R5R4
UniProt Related Accession #	P12277
GenBank Nucleotide #	NM_001823.4
NCBI Official Full Name	creatine kinase B-type isoform 1
NCBI Official Synonym Full Names	creatine kinase B
NCBI Official Symbol	CKB
NCBI Official Synonym Symbols	BCK; B-CK; CKBB; CPK-B; HEL-211; HEL-S-29
UniProt Protein Name	Creatine kinase B-type
UniProt Synonym Protein Names	Brain creatine kinase
Protein Family	Creatine kinase
UniProt Gene Name	CKB
UniProt Synonym Gene Names	CKBB; CPK-B
NCBI Protein Information	creatine kinase B-type
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	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.
Research Articles on CKB	**1.** Association and oligomerization of Prx II could take part in recovery and protection of the CK BB enzyme activity from inactivation during heat-induced stress.
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