Creatine Kinase M-Type (CKM) ELISA Kit for Human

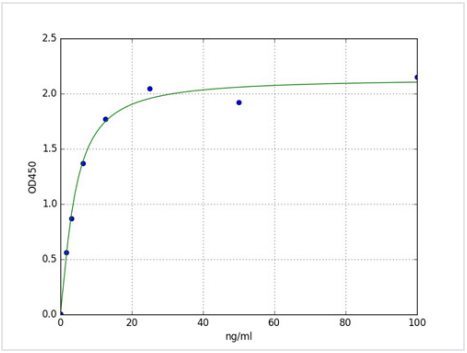
PRODUCT OVERVIEW

Product Name	Creatine kinase M-type (CKM), ELISA Kit
Full Product Name	Human Creatine kinase M-type ELISA Kit
Product Gene Name	CKM elisa kit
Product Synonym Names	CKM/CKMM/M-CK/creatine kinase M-type/Creatine kinase M chain/creatine kinase; muscle/creatine kinase-M
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	1.563-100ng/ml
Sensitivity	0.938ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	43,101 Da
OMIM	123310
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CKM elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human CKM antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human CKM antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRPStreptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human CKM amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human CKM can be calculated.
Other Notes	Small volumes of CKM 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 CKM purchase	MBS763471 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Creatine kinase M-type (CKM) 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 CKM. The ELISA analytical biochemical technique of the MBS763471 kit is based on CKM antibody-CKM antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CKM antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CKM. 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(%).

Results of a typical standard run of a Human CKM ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	1.563	3.125	6.25	12.5	25	50	100
Y	OD450								

Typical Testing Data of CKM elisa kit



Typical Standard Curve of CKM elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	21536288
NCBI GeneID	1158
NCBI Accession #	NP_001815.2
UniProt Secondary Accession #	Q96QL9
UniProt Related Accession #	P06732
GenBank Nucleotide #	NM_001824.4
NCBI Official Full Name	creatine kinase M-type
NCBI Official Synonym Full Names	creatine kinase, M-type
NCBI Official Symbol	CKM
NCBI Official Synonym Symbols	CKMM; M-CK
UniProt Protein Name	Creatine kinase M-type
UniProt Synonym Protein Names	Creatine kinase M chain; M-CK
Protein Family	Creatine kinase
UniProt Gene Name	CKM
UniProt Synonym Gene Names	CKMM
UniProt Entry Name	KCRM_HUMAN
NCBI Protein Information	creatine kinase M-type
NCBI Summary for CKM	The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. [provided by RefSeq, Jul 2008]

UniProt Comments for CKM	CKM: 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. Belongs to the ATP:guanido phosphotransferase family. Protein type: EC 2.7.3.2; Amino Acid Metabolism - arginine and proline; Kinase, other Chromosomal Location of Human Ortholog: 19q13.32 Cellular Component: cytosol Molecular Function: ATP binding; creatine kinase activity; protein binding Biological Process: creatine metabolic process; phosphocreatine biosynthetic process; phosphorylation; polyamine metabolic process
Research Articles on CKM	**1.** CK-MB mass is more significant criteria of myocardial injury.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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