

Human Creatine Kinase U-Type, Mitochondrial (CKMT1A) ELISA Kit | CKMT1A elisa kit

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CATALOG #
AAA331970

REACTIVITY
Human

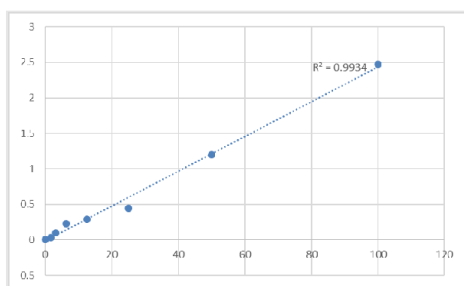
PRODUCT SYNONYMS

Creatine Kinase U-Type; Mitochondrial (CKMT1A); Human Creatine Kinase U-Type; Mitochondrial (CKMT1A) ELISA Kit; CKMT1A; CKMT1; FLJ50967; UMTCK; acidic-type mitochondrial creatine kinase; creatine kinase; mitochondrial 1 (ubiquitous); CKMT1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Creatine kinase U-type, mitochondrial (CKMT1A) ELISA Kit has high sensitivity and excellent specificity for detection of Human CKMT1A. No significant cross-reactivity or interference between Human CKMT1A and analogues was observed.
Sequence Length	417
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Creatine kinase U-type, mitochondrial (CKMT1A) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for CKMT1A elisa kit	Description: This Human Creatine kinase U-type, mitochondrial (CKMT1A) ELISA Kit employs a two-site sandwich ELISA to quantitate CKMT1A in samples. An antibody specific for CKMT1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CKMT1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CKMT1A is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CKMT1A bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Creatine kinase, mitochondrial 1A also known as CKMT1A is one of two genes which encode the ubiquitous mitochondrial creatine kinase (ubiquitous mtCK or CKMT1). Mitochondrial creatine (MtCK) kinase is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme family. It exists as two isoenzymes, sarcomeric MtCK (CKMT2) and ubiquitous MtCK, encoded by separate genes. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Ubiquitous mitochondrial creatine kinase has 80% homology with the coding exons of sarcomeric mitochondrial creatine kinase.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66346730
NCBI Accession #	NP_001015001.1
NCBI GenBank Nucleotide #	NP_001015001.1
UniProt Accession #	P12532
NCBI Official Full Name	creatine kinase U-type, mitochondrial isoform 1
UniProt Protein Name	Creatine kinase U-type, mitochondrial
UniProt Gene Name	CKMT1A
UniProt Synonym Gene Names	CKMT; Mia-CK; U-MtCK
UniProt Entry Name	KCRU_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.