

Mouse Creatine Kinase, Mitochondrial 1A ELISA Kit | CKMT1A elisa kit

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CATALOG #
AAA86689

REACTIVITY
Mouse

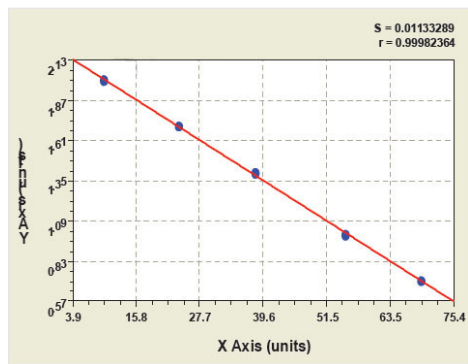
PRODUCT SYNONYMS

Creatine Kinase; Mitochondrial 1A; Mouse Creatine Kinase; Mitochondrial 1A ELISA Kit; CKMT1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	5.0-100 U/L
Sensitivity	1.0U/L
Intended Uses	This CKMT1A ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse CKMT1A. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CKMT1A elisa kit

Principle of the Assay: CKMT1A ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CKMT1A antibody and an CKMT1A-HRP conjugate. The assay sample and buffer are incubated together with CKMT1A-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CKMT1A concentration since CKMT1A from samples and CKMT1A-HRP conjugate compete for the anti-CKMT1A antibody binding site. Since the number of sites is limited, as more sites are occupied by CKMT1A from the sample, fewer sites are left to bind CKMT1A-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CKMT1A concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	66346730
NCBI GeneID	548596
NCBI Accession #	NP_001015001.1
NCBI GenBank Nucleotide #	NM_001015001.1
Molecular Weight	50,421 Da
NCBI Official Full Name	creatine kinase U-type, mitochondrial
NCBI Official Synonym Full Names	creatine kinase, mitochondrial 1A
NCBI Official Symbol	CKMT1A
NCBI Official Synonym Symbols	CKMT1
NCBI Protein Information	creatine kinase U-type, mitochondrial; U-MtCK; mia-CK; ubiquitous mitochondrial creatine kinase; acidic-type mitochondrial creatine kinase; creatine kinase, mitochondrial 1 (ubiquitous)
UniProt Protein Name	Creatine kinase U-type, mitochondrial
UniProt Gene Name	CKMT1A
UniProt Synonym Gene Names	CKMT CKMT1B ; 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.