

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

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CATALOG #  
**AAA92841**

REACTIVITY  
**Goat**

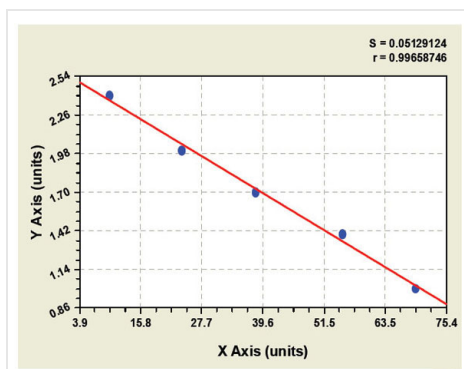
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Reactivity              | Goat                                                                       |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate |
| Assay Type              | Competitive                                                                |
| Sensitivity             | 1.0 ng/mL.                                                                 |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                        |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for CKMT1A elisa kit

**Intended Uses:** This CKMT1A ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Goat CKMT1A. This ELISA kit for research use only!

**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.

#### Product Categories/Family for CKMT1A elisa kit

Cell Biology

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                | <b>CKMT1A</b>                                                                                                                                                                             |
| UniProt Synonym Gene Names       | CKMT<br><b>CKMT1B</b> ; 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/ckmt1a-goat-elisa-kits/creatine-kinase-mitochondrial-1a/92841>