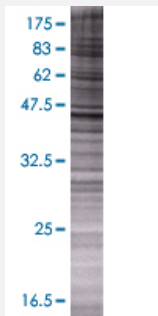


CKMT2 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00001160-T01

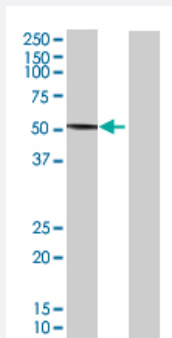
Size 100 uL

Applications



SDS-PAGE Gel

CKMT2 transfected lysate.



Western Blot

Lane 1: CKMT2 transfected lysate (46.2 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-CKMT2 full-length

Host Human

Theoretical MW (kDa) 46.2

Quality Control Testing Transient overexpression cell lysate was tested with Anti-CKMT2 antibody ([H00001160-B01](#)) by Western Blots.
 SDS-PAGE Gel
 CKMT2 transfected lysate.
 Western Blot
 Lane 1: CKMT2 transfected lysate (46.2 KDa)
 Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — CKMT2

Entrez GeneID[1160](#)**GeneBank Accession#**[BC029140.1](#)**Protein Accession#**[AAH29140.1](#)**Gene Name**

CKMT2

Gene Alias

SMTCK

Gene Description

creatine kinase, mitochondrial 2 (sarcomeric)

Omim ID[123295](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Mitochondrial creatine kinase (MtCK) 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 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. Sarcomeric mitochondrial creatine kinase has 80% homology with the coding exons of ubiquitous mitochondrial creatine kinase. This gene contains sequences homologous to several motifs that are shared among some nuclear genes encoding mitochondrial proteins and thus may be essential for the coordinated activation of these genes during mitochondrial biogenesis. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000147542|basic-type mitochondrial creatine kinase|sarcomeric mitochondrial creatine kinase

Pathway

- [Arginine and proline metabolism](#)

- [Metabolic pathways](#)