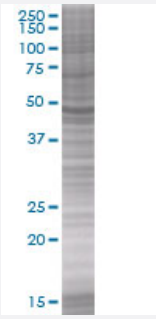
CKMT1B 293T Cell Transient Overexpression Lysate(Denatured)

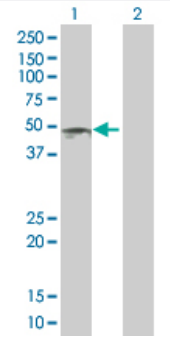
Catalog # H00001159-T01 Size 100 uL

Applications



SDS-PAGE Gel

CKMT1B transfected lysate



Western Blot

Lane 1: CKMT1B transfected lysate (47 KDa).
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-CKMT1B full-length
Host	Human
Theoretical MW (kDa)	47
Interspecies Antigen Sequence	Mouse (97); Rat (97)

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-CKMT1B antibody (H00001159-B01) by Western Blots. SDS-PAGE Gel CKMT1B transfected lysate Western Blot Lane 1: CKMT1B transfected lysate (47 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 — CKMT1B

Entrez GeneID	1159
GeneBank Accession#	NM_020990
Protein Accession#	NP_066270
Gene Name	CKMT1B
Gene Alias	CKMT, CKMT1, UMTCK
Gene Description	creatine kinase, mitochondrial 1B
Omim ID	123290
Gene Ontology	Hyperlink
Gene Summary	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 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. Many malignant cancers with poor prognosis have shown overexpression of ubiquitous mitochondrial creatine kinase; this may be related to high energy turnover and failure to eliminate cancer cells via apoptosis. Ubiquitous mitochondrial creatine kinase has 80% homology with the coding exons of sarcomeric mitochondrial creatine kinase. Two genes located near each other on chromosome 15 have been identified which encode identical mitochondrial creatine kinase proteins. [provided by RefSeq

Other Designations	OTTHUMP00000066275|acidic-type mitochondrial creatine kinase|creatine kinase, mitochondrial 1 (ubiquitous)|ubiquitous mitochondrial creatine kinase

Pathway

- Arginine and proline metabolism
- Metabolic pathways