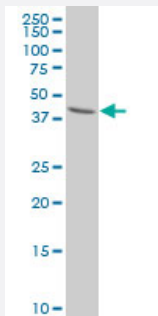


# CKMT1B polyclonal antibody (A01)

Catalog # H00001159-A01

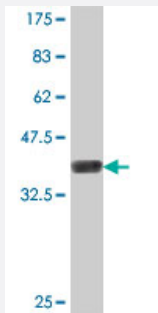
Size 50 uL

## Applications



### Western Blot (Cell lysate)

CKMT1B polyclonal antibody (A01), Lot # 060613JCS1 Western Blot analysis of CKMT1B expression in 293 ( Cat # L026V1 ).



Western Blot detection against Immunogen (36.12 KDa) .

## Specification

<b>Product Description</b>	Mouse polyclonal antibody raised against a partial recombinant CKMT1B.
<b>Immunogen</b>	CKMT1B (NP_066270, 327 a.a. ~ 417 a.a) partial recombinant protein with GST tag.
<b>Sequence</b>	GVHIKLPLLSKDSRFPKILENLRQLQKRGTTGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGVNYLI DCERRLERGQDIRIPTPVIHTKH
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Interspecies Antigen Sequence</b>	Mouse (93); Rat (92)

**Quality Control Testing**

Antibody Reactive Against Recombinant Protein.  
Western Blot detection against Immunogen (36.12 KDa) .

**Storage Buffer**

50 % glycerol

**Storage Instruction**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Cell lysate)

CKMT1B polyclonal antibody (A01), Lot # 060613JCS1 Western Blot analysis of CKMT1B expression in 293 ( Cat # L026V1 ).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

## 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, mitochondria l 1 (ubiquitous)|ubiquitous mitochondrial creatine kinase

**Pathway**

- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)