

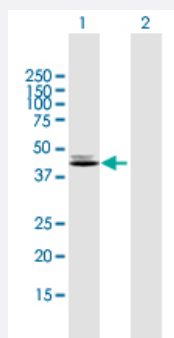
MaxPab®

CKMT2 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00001160-B01P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of CKMT2 expression in transfected 293T cell line ([H00001160-T01](#)) by CKMT2 MaxPab polyclonal antibody.

Lane 1: CKMT2 transfected lysate(46.09 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human CKMT2 protein.

Immunogen

CKMT2 (AAH29140.1, 1 a.a. ~ 419 a.a) full-length human protein.

Sequence

MASIFSKLLTGRNASLLFATMGTSVLTTGYLLNRQKVCAEVREQPRLFPPSADYPDLRKHNNCMA
ECLTPAIYAKLRNKVTPNGYTLDDQCIQTGVDNPGHPFIKTVGMVAGDEESYEVFADLFDPVIKLRHN
GYDPRVMKHTTDLDAKITQQGFDEHYVLSSRVRTGRSIRGLSLPPACTRAERREVENVAITALEG
LKGDLAGRYKLSMTEQDQQRLIDDHFLFDKPVSPLLTCAGMARDWPDARGWHNYDKTFLWI
NEEDHTRVISMEKGGNMKRVFERFCRGLKEVERLIQERGWEFMWNERLGYILTCPSNLGTGLRA
GVHVRIPKLSKDPRFSKILENLRQLKRGTTGGVDTAAVADVYDISNIDRGRSEVELVQIDGVNYLV
DCEKKLERGQDIKVPPLPQFGKK

Host

Mouse

Reactivity

Human

Quality Control Testing

Antibody reactive against mammalian transfected lysate.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

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

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[Protocol Download](#)

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](#)