

CKMT2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7072b**Specification**

CKMT2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P17540](#)**CKMT2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 1160**Other Names**

Creatine kinase S-type, mitochondrial, Basic-type mitochondrial creatine kinase, Mib-CK, Sarcomeric mitochondrial creatine kinase, S-MtCK, CKMT2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7072b](/product/products/AP7072b) was selected from the C-term region of human CKMT2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CKMT2 Antibody (C-term) Blocking Peptide - Protein Information**Name** CKMT2**Function**

Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.

Cellular Location

Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side

Tissue Location

Sarcomere-specific. Found only in heart and skeletal muscles

CKMT2 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CKMT2 Antibody (C-term) Blocking Peptide - Images

CKMT2 Antibody (C-term) Blocking Peptide - Background

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.