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CKMT2 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5547

Specification

CKMT2 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	P17540
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=48 KDa**
Isotype	**Rabbit IgG**
Antigen Source	**HUMAN**

CKMT2 Antibody (N-term) - Additional Information

Gene ID 1160

Antigen Region
51~86

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

Dilution
WB~~1:1000

Target/Specificity
This CKMT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 51-86 amino acids from the N-terminal region of human CKMT2.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CKMT2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CKMT2 Antibody (N-term) - 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

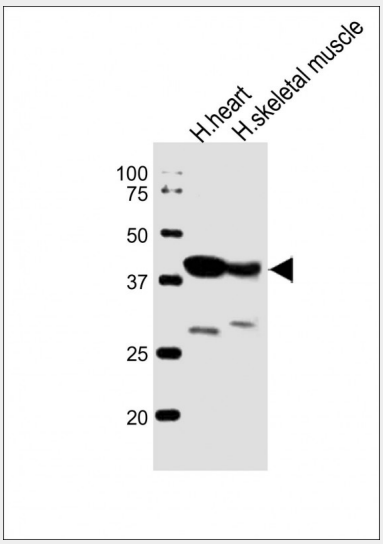
Tissue Location
Sarcomere-specific. Found only in heart and skeletal muscles

CKMT2 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CKMT2 Antibody (N-term) - Images



All lanes : Anti-CKMT2 Antibody (A71) at 1:1000 dilution Lane 1: human heart lysate Lane 2: human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

CKMT2 Antibody (N-term) - 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.