

**Anti-CKMT2 Antibody**  
**Rabbit polyclonal antibody to CKMT2**  
**Catalog # AP59987****Specification**

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**Anti-CKMT2 Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P17540</a>
Other Accession	<a href="#">Q6P8J7</a>
Reactivity	Human, Mouse, Rat, Pig, Chicken, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47504

**Anti-CKMT2 Antibody - 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

**Target/Specificity**

Recognizes endogenous levels of CKMT2 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

IF~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-CKMT2 Antibody - 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

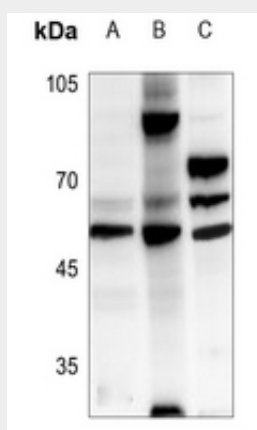
**Tissue Location**

Sarcomere-specific. Found only in heart and skeletal muscles

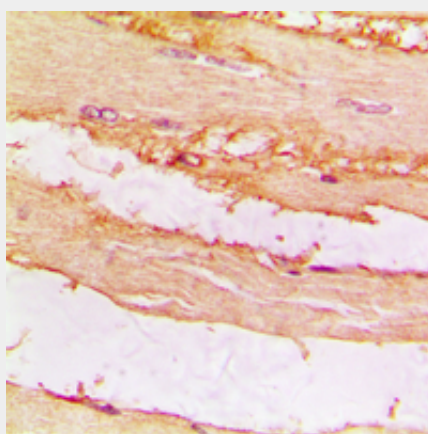
**Anti-CKMT2 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

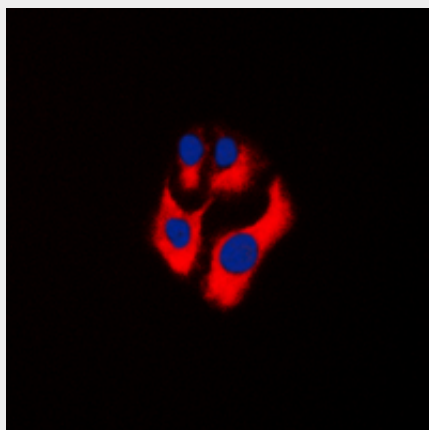
**Anti-CKMT2 Antibody - Images**

Western blot analysis of CKMT2 expression in mouse heart (A), rat kidney (B), rat heart (C) whole cell lysates.



Immunohistochemical analysis of CKMT2 staining in human muscle formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room

temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CKMT2 staining in THP1 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

#### **Anti-CKMT2 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CKMT2. The exact sequence is proprietary.