

Datasheet for ABIN1679244  
**anti-CKMT1A antibody (AA 258-417)**



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1 Image

## Overview

Quantity:	100 µg
Target:	CKMT1A
Binding Specificity:	AA 258-417
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CKMT1A antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 258-417 of human CKMT1A (NP_001015001.1).
Sequence:	FLIWNNEEDH TRVISMKEGG NMKRVERFC RGLKEVERLI QERGWEFMWN ERLGYILTCP SNLGTGLRAG VHIKPLLSK DSRFPKILEN LRLQKRGTTGG VDTAATGGVF DISNLDRLGK SEVELVQLVI DGVNYLIDCE RRLERQDIR IPTPVIHTKH
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

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Target:	CKMT1A
Alternative Name:	CKMT1A ( <a href="#">CKMT1A Products</a> )
Background:	<p>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.,CKMT1A,CKMT1,U-MtCK,mia-CK,Signal Transduction,Kinase,CKMT1A</p>
Molecular Weight:	47 kDa/50 kDa
Gene ID:	548596
UniProt:	<a href="#">P12532</a>

## Application Details

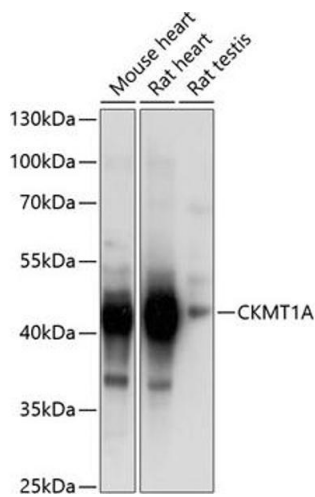
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Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

## Handling

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Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using CKMT1A Antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.