



Datasheet for ABIN3017246
anti-CKMT1B antibody (AA 1-85)



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4 Images

Overview

Quantity:	100 µL
Target:	CKMT1B
Binding Specificity:	AA 1-85
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CKMT1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-85 of human CKMT1B (NP_066270.1).
Sequence:	MAGPFSRLLS ARPGLRLLAL AGAGSLAAGF LLRPEPVRAA SERRRLYPPS AEYPDLRKHN NCMASHLTPA VYARLCDKTT PTGWT
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	CKMT1B
Alternative Name:	CKMT1B (CKMT1B Products)
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.,CKMT1B,CKMT,CKMT1,UMTCK,Signal Transduction,Kinase,CKMT1B</p>

Molecular Weight: 47 kDa/50 kDa

Gene ID: 1159

UniProt: [P12532](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:100,IP,1:50 - 1:200

Restrictions: For Research Use only

Handling

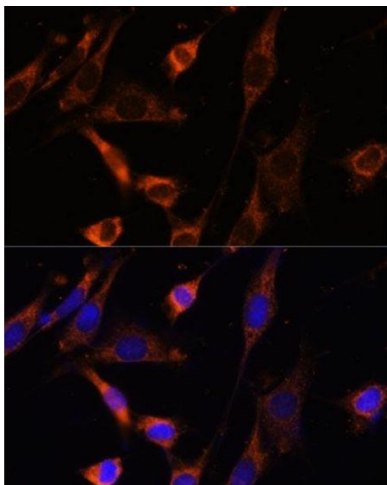
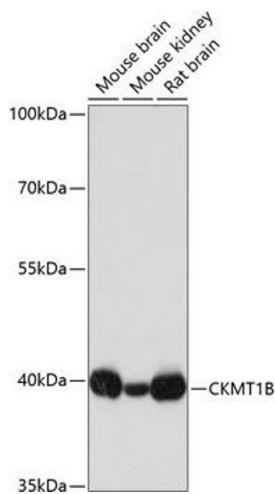
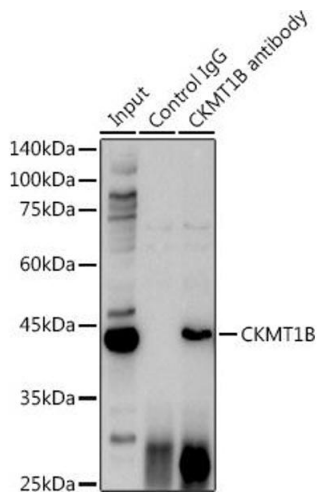
Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

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.



Immunoprecipitation

Image 1. Immunoprecipitation analysis of 600 µg extracts of Mouse brain cells using 3 µg CKMT1B antibody (ABIN3017245, ABIN3017246, ABIN3017247 and ABIN6220012). Western blot was performed from the immunoprecipitate using CKMT1B antibody (ABIN3017245, ABIN3017246, ABIN3017247 and ABIN6220012) at a dilution of 1:1000.

Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using CKMT1B antibody (ABIN3017245, ABIN3017246, ABIN3017247 and ABIN6220012) at 1:3000 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: 3s.

Immunofluorescence

Image 3. Immunofluorescence analysis of NIH-3T3 cells using CKMT1B Polyclonal Antibody (ABIN3017245, ABIN3017246, ABIN3017247 and ABIN6220012) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3017246.