

Datasheet for ABIN2855669
anti-CKMT1B antibody



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2 Images

Overview

Quantity:	100 µL
Target:	CKMT1B
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CKMT1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Whole Mount) (IHC (wm))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Creatine kinase MT. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Zebrafish (Danio rerio)
Characteristics:	Rabbit Polyclonal antibody to Creatine kinase 1B (creatine kinase, mitochondrial 1B) Creatine kinase 1B antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	CKMT1B
Alternative Name:	creatine kinase, mitochondrial 1B (CKMT1B Products)

Target Details

Background: 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.

Cellular Localization: Mitochondrion inner membrane, Peripheral membrane protein, Intermembrane side

Molecular Weight: 47 kDa

Gene ID: 1159

UniProt: [P12532](#)

Application Details

Application Notes: WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.

Comment: Positive Control: H1299 , HeLaS3

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: 0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal

Preservative: Thimerosal (Merthiolate)

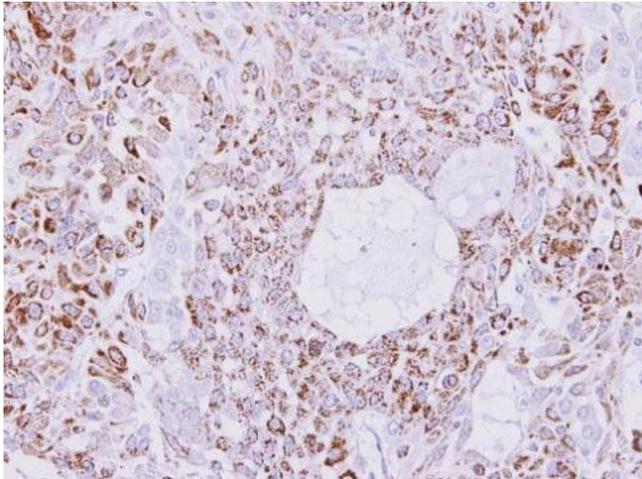
Precaution of Use: This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: 4 °C, -20 °C

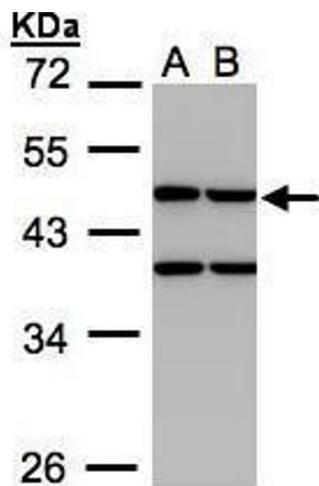
Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded A549 xenograft, using Creatine kinase 1B, antibody at 1:300 dilution.



Western Blotting

Image 2. WB Image Sample(30 ug whole cell lysate) A:H1299 B:HeLa S3, 10% SDS PAGE antibody diluted at 1:1000