

## Creatine kinase(mitochondrial 1B) antibody

Catalog No: #22984

Orders: order@signalwayantibody.com

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## Description

Product Name	Creatine kinase(mitochondrial 1B) antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Purified by antigen-affinity chromatography.
Applications	WB IHC
Species Reactivity	Hu
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 63 and 297 of Human CKMT1B
Target Name	Creatine kinase(mitochondrial 1B)
Other Names	CKMT; CKMT1; UMTCK
Accession No.	Swiss-Prot:P12532Gene ID:1159
Uniprot	P12532
GeneID	1159;548596;
Concentration	1mg/ml
Formulation	Supplied in 0.1M Tris-buffered saline with 10% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

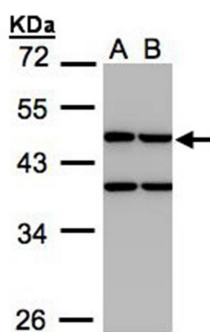
## Application Details

Predicted MW: 47kd

Western blotting: 1:500-1:3000

Immunohistochemistry: 1:50-1:500

## Images



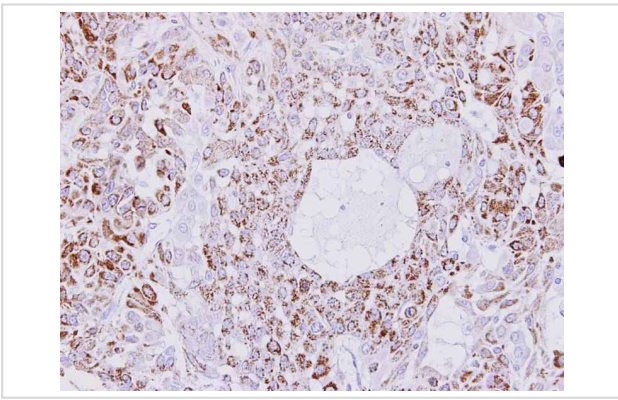
Sample(30 ug whole cell lysate)

A: H1299

B: HeLa S3

10% SDS PAGE

Primary antibody diluted at 1: 1000



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

## 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. [provided by RefSeq]

Note: This product is for in vitro research use only