CKMT1B Polyclonal Antibody

Catalog No: #30431

Package Size: #30431-1 50ul #30431-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	CKMT1B Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB,IF
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Recombinant fusion protein of human CKMT1B (NP_066270.1).
Other Names	CKMT1B;CKMT;CKMT1;UMTCK
Accession No.	Uniprot:P12532GeneID:1159
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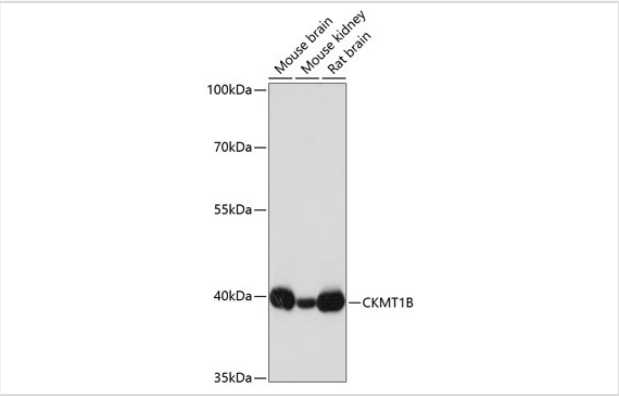
GeneID	1159
Calculated MW	40kDa
SDS-PAGE MW	42kDa
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

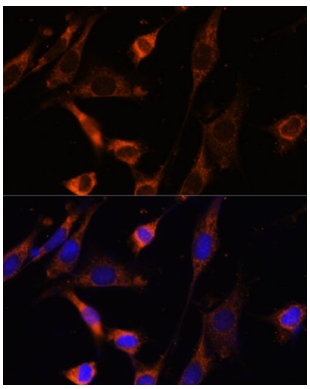
Application Details

WB□1:500 - 1:2000IF□1:50 - 1:100

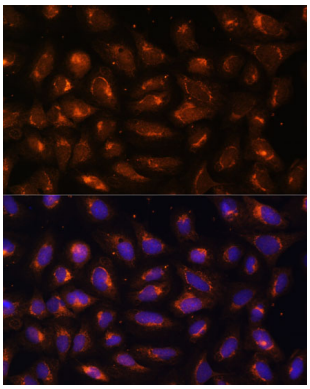
Images



Western blot analysis of extracts of various cell lines, using CKMT1B antibody.



Immunofluorescence analysis of NIH-3T3 cells using CKMT1B Polyclonal Antibody.



Immunofluorescence analysis of U-2 OS cells using CKMT1B Polyclonal Antibody.

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.

Note: This product is for in vitro research use only