

Website: www.upingBio.com

## uMtCK Monoclonal Antibody

Catalog No	YP-Ab-14208
Isotype	lgG
Reactivity	Human;Mouse;Rat;Dog;Pig;Rabbit
Applications	WB
Gene Name	CKMT1A/CKMT1B
Protein Name	Creatine kinase U-type mitochondrial
Immunogen	Purified recombinant human uMtCK protein fragments expressed in E.coli.
Specificity	uMtCK Monoclonal Antibody detects endogenous levels of uMtCK protein.
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Storage Stability	-20°C/1 year CKMT1A; CKMT; CKMT1B; CKMT; Creatine kinase U-type; mitochondrial; Acidic-type mitochondrial creatine kinase; Mia-CK; Ubiquitous mitochondrial creatine kinase; U-MtCK
Storage Stability Synonyms Observed Band	-20°C/1 year CKMT1A; CKMT; CKMT1B; CKMT; Creatine kinase U-type; mitochondrial; Acidic-type mitochondrial creatine kinase; Mia-CK; Ubiquitous mitochondrial creatine kinase; U-MtCK
Storage Stability Synonyms Observed Band Cell Pathway	-20°C/1 year CKMT1A; CKMT; CKMT1B; CKMT; Creatine kinase U-type; mitochondrial; Acidic-type mitochondrial creatine kinase; Mia-CK; Ubiquitous mitochondrial creatine kinase; U-MtCK Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side.
Storage Stability Synonyms Observed Band Cell Pathway Tissue Specificity	-20°C/1 year CKMT1A; CKMT; CKMT1B; CKMT; Creatine kinase U-type; mitochondrial; Acidic-type mitochondrial creatine kinase; Mia-CK; Ubiquitous mitochondrial creatine kinase; U-MtCK Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side. Cerebellum,Lung,PNS,
Storage Stability Synonyms Observed Band Cell Pathway Tissue Specificity Function	<ul> <li>-20°C/1 year</li> <li>-20°C/1 year</li> <li>CKMT1A; CKMT; CKMT1B; CKMT; Creatine kinase U-type; mitochondrial; Acidic-type mitochondrial creatine kinase; Mia-CK; Ubiquitous mitochondrial creatine kinase; U-MtCK</li> <li>Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side.</li> <li>Cerebellum,Lung,PNS,</li> <li>catalytic activity:ATP + creatine = ADP + phosphocreatine.,function:Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.,miscellaneous:Mitochondrial creatine kinase binds cardiolipin.,similarity:Belongs to the ATP:guanido phosphotransferase family.,subunit:Exists as an octamer composed of four MTCK homodimers.,</li> </ul>



## UpingBio technology Co.,Ltd

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	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 mi
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## **Products Images**



Western Blot analysis using uMtCK Monoclonal Antibody against Mouse Colon, 293, A431 cell lysate.