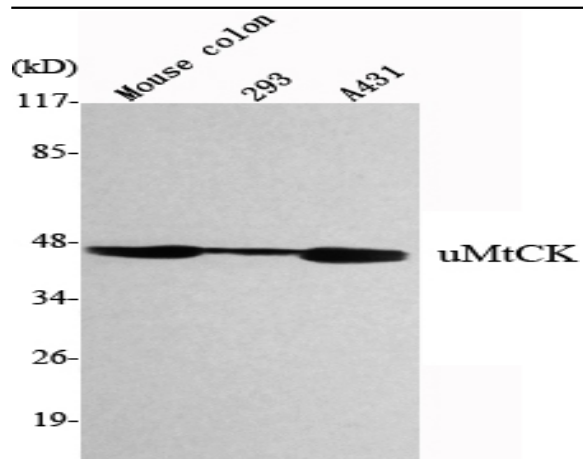


uMtCK Monoclonal Antibody

Catalog No :	YM1112
Reactivity :	Human;Mouse;Rat;Dog;Pig;Rabbit
Applications :	WB
Target :	uMtCK
Fields :	>>Arginine and proline metabolism;>>Metabolic pathways
Gene Name :	CKMT1A/CKMT1B
Protein Name :	Creatine kinase U-type mitochondrial
Human Gene Id :	1159/548596
Human Swiss Prot No :	P12532
Mouse Gene Id :	12716
Mouse Swiss Prot No :	P30275
Rat Swiss Prot No :	P25809
Immunogen :	Purified recombinant human uMtCK protein fragments expressed in E.coli.
Specificity :	uMtCK Monoclonal Antibody detects endogenous levels of uMtCK protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000 - 1:2000. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	47kD
Cell Pathway :	Arginine and proline metabolism;
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 mi</p>
Function :	<p>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.,</p>
Subcellular Location :	Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side.
Expression :	Cerebellum,Lung,PNS,
Sort :	23960
No4 :	1
Host :	Mouse
Modifications :	Unmodified

Products Images



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