

sMtCK Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA1146
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant human sMtCK protein fragments expressed in E.coli.
Mol wt	N/A
Species reactivity	Human,Mouse,Rat,Dog,Pig,Rabbit
Clonality	Monoclonal
Recommended application	WB
Concentration	1 mg/ml
Full name	Creatine kinase S-type mitochondrial
Synonyms	CKMT2; Creatine kinase S-type; mitochondrial; Basic-type mitochondrial creatine kinase; Mib-CK; Sarcomeric mitochondrial creatine kinase; S-MtCK

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

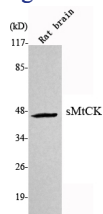
Mitochondrial creatine kinase (MtCK) is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme family. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate genes. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Sarcomeric mitochondrial creatine kinase has 80% homology with the coding exons of ubiquitous mitochondrial creatine kinase. This gene contains sequences homologous to several motifs that are shared among some nuclear genes encoding mitochondrial proteins and thus may be essential for the coordinated activation of these genes during mitochondrial biogenesis. Three transcript variants encoding the same protein have been found for this gen

Recommended Dilution

WB: 1:1000 - 1:2000

Not yet tested in other applications.

Images



Western Blot analysis using sMtCK Monoclonal antibody against rat brain lysate.

Storage

-20°C for one year