CKMT2 Antibody

E2200736

Catalog Number:	E2200736
Size:	100ug
Host:	Mouse
Formulation:	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Sensitivity:	This antibody detects endogenous levels of CKMT2 and does not cross-react with related proteins.
Entrez summary:	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 gene.
UniPort summary 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.
Immunogen:	Purified recombinant human CKMT2 protein fragments expressed in E.coli.
Antibody Type:	Monoclonal antibody
Isotype:	IgG2b
Purified method:	Affinity purified
Subcellular location:	Cytoplasm, Cell membrane
Reactivity:	R
Applications:	WB
Molecular Weight:	47kDa
UniProt number:	P17540
GeneBank ID:	NM_001825.2
Gene symbol:	SMTCK
Alternate names:	Basic-type mitochondrial creatine kinase Short name=Mib-CK Sarcomeric mitochondrial creatine kinase Short name=S-MtCK

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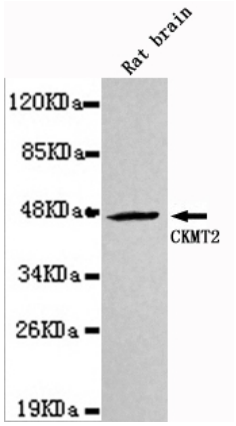

Western blot detection of CKMT2 in Rat Brain lysates using CKMT2 antibody (1:1000 diluted). Predicted band size:47KDa. Observed band size:47KDa.