

Recombinant Human CKMT2

Catalog No: #GP11384



Package Size: #GP11384-1 100ug

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

Description

Product Name	Recombinant Human CKMT2
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 159-401 amino acids of human creatine kinase, mitochondrial 2 (sarcomeric)
Target Name	creatine kinase, mitochondrial 2 (sarcomeric)
Other Names	SMTCK
Accession No.	Swissprot:P17540Gene Accession:BC029140
Uniprot	P17540
GenelD	1160;
Storage	-20~-80°C, pH 7.6 PBS

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 gene.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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