CKMT1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CKMT1A, Polyclonal Antibody
Full Product Name	CKMT1A
Product Gene Name	anti-CKMT1A antibody
Product Synonym Names	Purified Rabbit Anti Human CKMT1A Polyclonal antibody; CKMT1; U-MtCK; mia-CK
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human Predicted: Rat, Mouse
Form/Format	Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol.
Purity/Purification	Purified By Antigen Affinity Column
Molecular Weight	47KD
Immunogen	Recombinant fragment corresponding to 149-307aa of human CKMT1A.
Cellular Localization	Membrane, Mitochondrion, Mitochondrion Inner Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CKMT1A antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CKMT1A antibody	ELISA: 1:20000-80000 WB: 1:200-1,000
Related Product Information for anti-CKMT1A antibody	MBS8564234 is an antibody targeting CKMT1A. Reactive in Human Predicted: Rat, Mouse. Host: Rabbit. Homo sapiens creatine kinase, mitochondrial 1A, mRNA
Product References and Citations for anti-CKMT1A antibody	Eder M, Fritz Wolf K, Kabsch W. et al. Crystal structure of human ubiquitous mitochondrial creatine kinase. Proteins:Structure, Function, and Bioinformatics. 39 (3):216-225 (2000)
Other Notes	Small volumes of anti-CKMT1A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKMT1A. It may not necessarily be applicable to this product.

NCBI GI #	12804946
NCBI GeneID	548596
NCBI Accession #	BC001926
UniProt Related Accession #	P12532
NCBI Official Full Name	Homo sapiens creatine kinase, mitochondrial 1A, mRNA
NCBI Official Synonym Full Names	creatine kinase, mitochondrial 1A

NCBI Official Symbol	CKMT1A
NCBI Official Synonym Symbols	CKMT1; U-MtCK; mia-CK
NCBI Protein Information	creatine kinase U-type, mitochondrial
NCBI Summary for CKMT1A	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 mitochondrial creatine kinase proteins. [provided by RefSeq, Jul 2008]
Research Articles on CKMT1A	**1.** Mitochondrial creatine kinase CKMT1 is necessary for survival of EVI1-expressing cells in subjects with EVI1-positive AML.
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