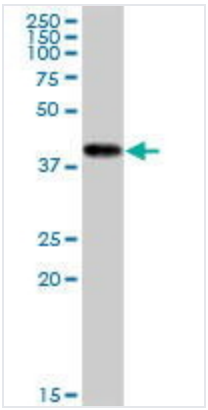
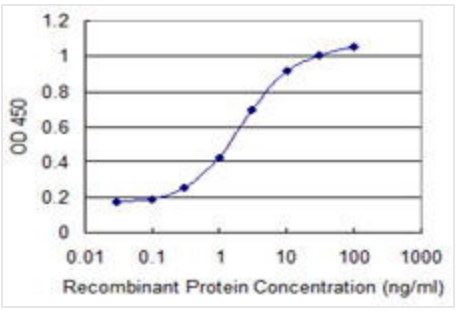
CKMT1B Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CKMT1B, Monoclonal Antibody
Full Product Name	CKMT1B (Creatine Kinase, Mitochondrial 1B, CKMT, CKMT1, UMTCK) (AP)
Product Gene Name	anti-CKMT1B antibody
Product Synonym Names	Creatine Kinase; Mitochondrial 1B; CKMT; CKMT1; UMTCK
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2C9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes CKMT1B.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	50,421 Da
Immunogen	CKMT1B (NP_066270, 327aa-417aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GVHIKLPLLSKDSRFPKILENLRLQKRGTGGVDTAATGGVFDISNLDRLGKSEVELVQLVIDGVNYLIDCERRLERGQDIRIPTPVIHTKH
Conjugate	AP
Product Categories/Family for anti-CKMT1B antibody	Antibodies; Enzymes; Creatine Kinase
Applications Tested/Suitable for anti-CKMT1B antibody	Western Blot (WB)
Application Notes for anti-CKMT1B antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CKMT1B antibody	MBS6164875 is an antibody targeting CKMT1B. Also known as CKMT1B (Creatine Kinase, Mitochondrial 1B, CKMT, CKMT1, UMTCK) (AP). Host: Mouse.
Other Notes	Small volumes of anti-CKMT1B 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.



Western Blot (WB) of anti-CKMT1B antibody
CKMT1B monoclonal antibody (M16), clone 2C9. Western Blot analysis of CKMT1B expression in A-431.



Testing Data of anti-CKMT1B antibody
Detection limit for recombinant GST tagged CKMT1B is 0.1 ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKMT1B. It may not necessarily be applicable to this product.

NCBI GI #	10334859
NCBI GeneID	1159
NCBI Accession #	NP_066270
UniProt Secondary Accession #	Q0VAM3; Q32NF6; Q53FC4; B4DIT8; B7ZA09
UniProt Related Accession #	P12532
GenBank Nucleotide #	NM_020990.3
NCBI Official Full Name	creatine kinase U-type, mitochondrial
NCBI Official Synonym Full Names	creatine kinase, mitochondrial 1B
NCBI Official Symbol	CKMT1B
NCBI Official Synonym Symbols	CKMT; CKMT1; UMTCK
NCBI Protein Information	creatine kinase U-type, mitochondrial
NCBI Summary for CKMT1B	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 CKMT1B	**1.** LRRK2 can interact directly with uMtCK to block its entry into mitochondria and its subsequent processing.
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