CKMT1B rabbit monoclonal antibody

Catalog # H00001159-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human CKMT1B peptide using ARM Technology.
Immunogen	A synthetic peptide of human CKMT1B is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human CKMT1B peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — CKMT1B

Entrez GeneID	1159
GeneBank Accession#	CKMT1B
Gene Name	CKMT1B
Gene Alias	CKMT, CKMT1, UMTCK
Gene Description	creatine kinase, mitochondrial 1B
Omim ID	123290
Gene Ontology	Hyperlink
Gene Summary	Mitochondrial creatine (MtCK) kinase is responsible for the transfer of high energy phosphate fro m mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme famil y. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate gen es. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, i n contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Many malignant cancer s with poor prognosis have shown overexpression of ubiquitous mitochondrial creatine kinase; thi s may be related to high energy turnover and failure to eliminate cancer cells via apoptosis. Ubiqu itous mitochondrial creatine kinase has 80% homology with the coding exons of sarcomeric mitoc hondrial creatine kinase. Two genes located near each other on chromosome 15 have been ident ified which encode identical mitochondrial creatine kinase proteins. [provided by RefSeq
Other Designations	OTTHUMP00000066275|acidic-type mitochondrial creatine kinase|creatine kinase, mitochondria l 1 (ubiquitous)|ubiquitous mitochondrial creatine kinase

Pathway

- Arginine and proline metabolism
- Metabolic pathways