

## Product datasheet for **AM50081PU-N**

### CKMT1B Mouse Monoclonal Antibody [Clone ID: AT17A2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT17A2
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western blot.</b> <b>Flow Cytometry.</b> <b>Immunofluorescence.</b> Recommended starting dilution is 1:1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant human CKMT1A (40-417aa) purified from E. coli
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	creatine kinase, mitochondrial 1B
Database Link:	<a href="#">Entrez Gene 548596 Human</a> <a href="#">Entrez Gene 1159 Human</a> <a href="#">P12532</a>



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**Background:**

CKMT1A, also known as Creatine kinase, mitochondrial 1A, is 417 amino acid protein. Mitochondrial creatine kinase (MtCK) exists as two isoenzymes, sarcomeric MtCK (CKMT2) and ubiquitous MtCK (CKMT1). It is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. 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.

**Synonyms:**

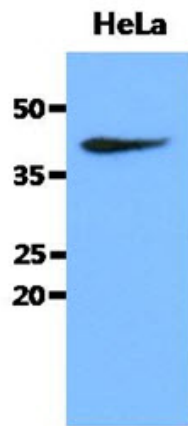
CKMT1A, CKMT1B, U-MtCK, Mia-CK, Creatine kinase U

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Arginine and proline metabolism, Metabolic pathways

**Product images:**

The cell lysates of HeLa (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CKMT1A antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.