
Product Name: CKMT1 Mouse Monoclonal Antibody**Catalog #: AMM85090**

For research use only.

Summary

| | |
|----------------------|---|
| Description | Mouse monoclonal Antibody |
| Host | Mouse |
| Application | WB |
| Reactivity | Human,Rat |
| Conjugation | Unconjugated |
| Modification | Unmodified |
| Isotype | Mouse IgG1 |
| Clonality | Monoclonal |
| Form | Liquid |
| Concentration | 1mg/ml |
| Storage | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| Shipping | Ice bags |
| Buffer | Purified antibody in PBS with 0.05% sodium azide,0.5%protective protein and 50% glycerol. |
| Purification | Affinity Purification |

Application

| | |
|-------------------------|--|
| Dilution Ratio | WB 1:500-1:1000 |
| Molecular Weight | Calculated MW: 47 kDa; Observed MW: 47 kDa |

Antigen Information

| | |
|--------------------------|---|
| Gene Name | CKMT1 |
| Alternative Names | CKMT; CKMT1; UMTCK; CKMT1A |
| Gene ID | 1159.0 |
| SwissProt ID | P12532 |
| Immunogen | Purified recombinant human CKMT1 protein fragments expressed in E.coli. |

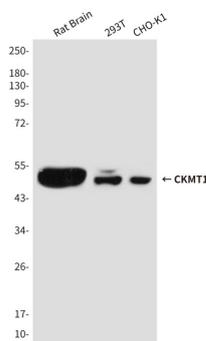
Background

Creatine kinase MT 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. Creatine kinase MT 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.

Research Area

Image Data



Western blot analysis of CKMT1 in rat Brain, 293T and CHO-K1 lysates using CKMT1 antibody.