Product Name: CKMT1 (1A6) Mouse Monoclonal Antibody
Catalog #: AMM03467

Summary

Production Name	CKMT1 (1A6) Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Purification	Affinity Purification

Immunogen

Gene Name	CKMT1A
Alternative Names	CKMT; CKMT1; UMTCK; CKMT1A
Gene ID	1159
SwissProt ID	P12532.

Application

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

Background

Creatine kinase MT is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier,

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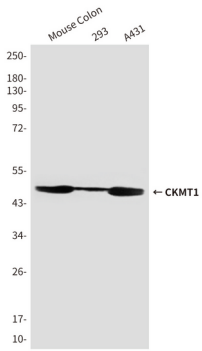
creatine. It belongs to the creatine kinase isoenzyme family. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate genes. Creatine kinase MT occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase 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

Tags & Cell Markers

Image Data



Western blot analysis of CKMT1 in mouse Colon, 293 and A431 lysates using CKMT1 antibody.

Note

For research use only.