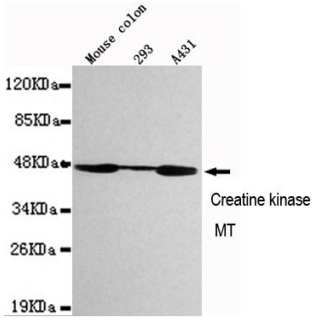
CKMT1

Mouse monoclonal Antibody

#53130

Catalog Number: 53130
Amount: 100μg/100μl
Swiss-Prot No. :P12532
Gene name:ckmt1b
Gene id:1159
Clone Number： 1A6-C7-G10
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human CKMT1 protein fragments expressed in E.coli
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of CKMT1 and does not corss-react with related proteins
Reactivity: Human,Mouse
Applications: Predicted MW: 47kd WB: 1:1000



Western blot detection of CKMT1 in Mouse Colon,293 and A431 cell lysates using CKMT1 mouse mAb (1:1000diluted).Predicted band size:47KDa.Observed band size:47KDa.

Background:

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.