

32-5955: Mouse Anti Human Creatine Kinase, Mitochondrial 1A(Clone: PAT17A2AT)

Clonality :	Monoclonal
Clone Name :	PAT17A2AT
Application :	ELISA, WB
Gene :	CKMT1A
Gene ID :	1159
Uniprot ID :	P12532
Format :	Purified
Alternative Name :	Creatine kinase mitochondrial 1A, creatine kinase mitochondrial 1 (ubiquitous), creatine kinase U-type mitochondrial, Acidic-type mitochondrial creatine kinase, Ubiquitous mitochondrial creatine kinase, CKMT1, U-MtCK, mia-CK, EC 2.7.3, EC 2.7.3.2.
Isotype :	Mouse IgG2b heavy chain and k light chain.
Immunogen Information :	Anti-human CKMT1A mAb, clone PAT17A2AT, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CKMT1A protein 40-417 amino acids purified from E. coli.

Description

CKMT1A is in charge of the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. CKMT1A is a member of the creatine kinase isoenzyme family and exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate genes. Mitochondrial creatine kinase arises in two different oligomeric forms: dimers and octamers, unlike the exclusively dimeric cytosolic creatine kinase isoenzymes. Numerous malignant cancers with poor prognosis have displayed overexpression of ubiquitous mitochondrial creatine kinase which is linked to high energy turnover and inability to remove cancer cells through apoptosis.

Product Info

Amount :	20 µg
Purification :	CKMT1A antibody was purified from mouse ascitic fluids by protein-A affinity chromatography.
Content :	1mg/ml containing PBS, pH-7.4, 10% Glycerol and 0.02% Sodium Azide.
Storage condition :	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Application Note

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.