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## AM50081PU-S Monoclonal Antibody to CKMT - Purified

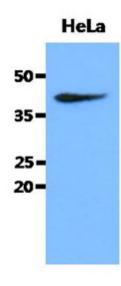
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Alternate names:	Acidic-type mitochondrial creatine kinase, CKMT1A, CKMT1B, Creatine kinase U, Mia- CK, U-MtCK, ubiquitous mitochondrial Creatine kinase
Quantity:	50 μl
Concentration:	1.0 mg/ml
Background:	CKMT1A, also known as Creatine kinase, mitochondrial 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.
Uniprot ID:	<u>P12532</u>
NCBI:	<u>NP_001015001</u>
GenelD:	<u>1159</u>
Host / Isotype:	Mouse / IgG2b
Recommended Isotype Controls:	SM12P, AM03110PU-N
Clone:	AT17A2
Immunogen:	Recombinant human CKMT1A (40-417aa) purified from E. coli
Format:	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Protein-A affinity chromatography <b>Buffer System:</b> PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol
Applications:	ELISA. Western blot. Flow Cytometry. Immunofluorescence. Recommended starting dilution is 1:1000.
	Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	<b>Species:</b> Human Other species not tested.
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. Shelf life: one year from despatch.
General Readings:	Haas. R.C., et al. (1989) J Biol Chem 264(5): 2890-2897 Stachowiak. O., et al. (1998) Mol Cell Biochem 184(1-2): 141-151 Lipskaya. T.Y. (2001) Biochemistry Mosc 66(10): 1098-1111

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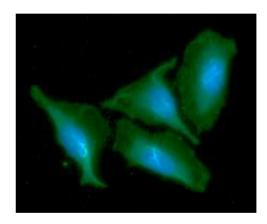
## **ORIGENE** AM50081PU-S: Monoclonal Antibody to CKMT - Purified

**Pictures:** 

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



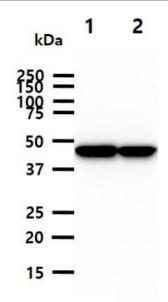
ICC/IF analysis of CKMT1A in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CKMT1A antibody (1:100) with goat antimouse IgG-Alexa fluor 488 conjugate (Green).



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The cell lysates (40 µg) 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. Lane 1: 293T cell lysate. Lane 2: HeLa cell lysate.



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