

Product datasheet

Anti-Creatine kinase MT antibody ab93029

2 Images

Overview

Product name	Anti-Creatine kinase MT antibody
Description	Mouse monoclonal to Creatine kinase MT
Host species	Mouse
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment: GVHIKLPLLS KDSRFPKILE NLRLQKRGTG GVDTAATGGV FDISNLDRLG KSEVELVQLV IDGVNYLIDC ERRLERGQDI RIPTPVIHTK H, corresponding to amino acids 327-418 of Human Creatine kinase MT (NP_066270) Run BLAST with ExPASy Run BLAST with NCBI
Positive control	A431 Human epithelial carcinoma cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: None Constituents: 1X PBS, pH 7.2
Purity	Protein A purified
Clonality	Monoclonal
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab93029** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		

Application	Abreviews	Notes
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ELISA

Application notes

ELISA: Use at an assay dependent dilution.

WB: Use at a concentration of 1 - 5 µg/ml. Predicted molecular weight: 46 kDa.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

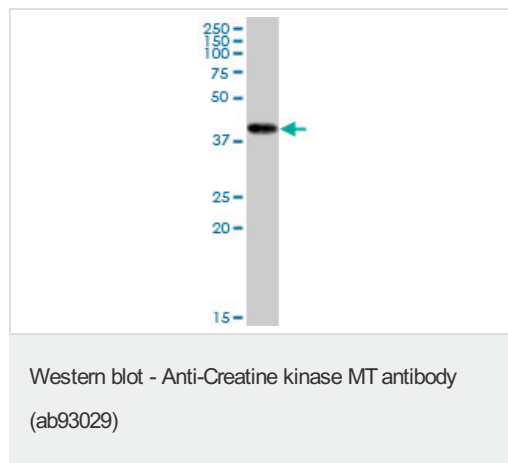
Relevance

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.

Cellular localization

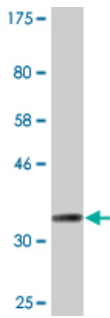
Cell Membrane and Mitochondrial

Images



Anti-Creatine kinase MT antibody (ab93029) at 5 µg/ml + A-431 cell lysate at 50 µg

Predicted band size: 46 kDa



Anti-Creatine kinase MT antibody (ab93029) at 5 µg/ml +
Immunogen at 0.2 µg

Predicted band size: 46 kDa

Western blot - Anti-Creatine kinase MT antibody
(ab93029)

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