

Product datasheet

# Anti-Creatine kinase MT antibody ab93029

2 Images

Overview

<b>Product name</b>	Anti-Creatine kinase MT antibody
<b>Description</b>	Mouse monoclonal to Creatine kinase MT
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment: GVHIKLP LLS KDSRFPKILE NLRLQKRG TG GVDTAATGGV FDISNLDRLG KSEVELVQLV IDGVNYLIDC ERRLERGQDI RIPTPVIHTK H, corresponding to amino acids 327-418 of Human Creatine kinase MT (NP_066270) <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	A431 Human epithelial carcinoma cell lysate

Properties

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

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**

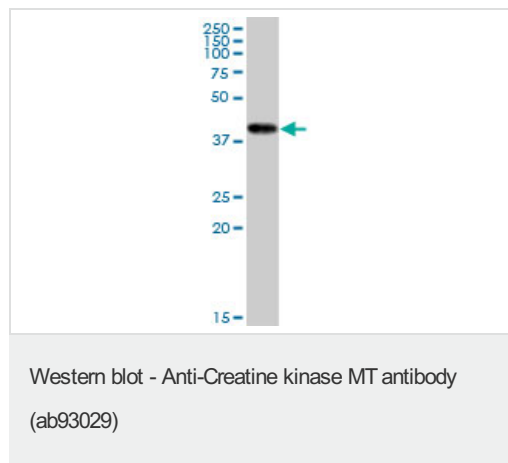
**Relevance**

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**

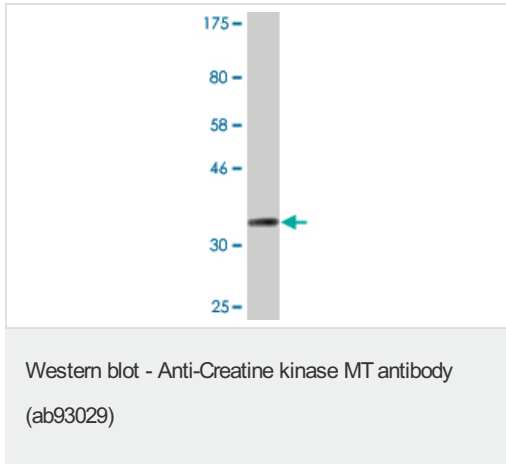
Cell Membrane and Mitochondrial

**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

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors