

## Creatine Kinase B monoclonal antibody

Catalog: MB66873

Host: Mouse

Reactivity: Human, Mouse

### BackGround:

Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens .Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa . Acts as a key regulator of adaptive thermogenesis as part of the futile creatine cycle: localizes to the mitochondria of thermogenic fat cells and acts by mediating phosphorylation of creatine to initiate a futile cycle of creatine phosphorylation and dephosphorylation .During the futile creatine cycle, creatine and N-phosphocreatine are in a futile cycle, which dissipates the high energy charge of N-phosphocreatine as heat without performing any mechanical or chemical work .

### Product:

Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 42 kDa

### Swiss-Prot:

P12277

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/500 - 1/1000)

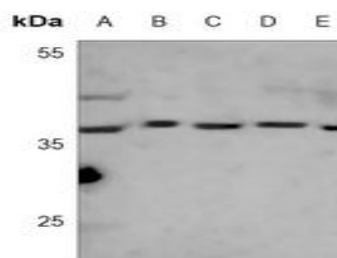
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Recognizes endogenous levels of Creatine Kinase B protein.

### DATA:



Western blot analysis of Creatine Kinase B expression in MDAMB453 (A), 293 (B), Y79 (C), mouse stomach (D), mouse brain (E) whole cell lysates.

### Note:

For research use only, not for use in diagnostic procedure.

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