

**Creatine Kinase BB Antibody (Center)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AW5061****Specification**

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**Creatine Kinase BB Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P12277</a>
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	H=43;M=43 KDa
Isotype	IgG1
Antigen Source	Human

**Creatine Kinase BB Antibody (Center) - Additional Information****Gene ID** 1152**Antigen Region**  
1-361**Other Names**

CKB;CKBB; Creatine kinase B-type; Creatine kinase B-type; B-CK; Creatine kinase B-type; Creatine kinase B chain

**Dilution**

WB~~1:1000

**Target/Specificity**

Purified His-tagged CKB protein was used to produced this monoclonal antibody.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Creatine Kinase BB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Creatine Kinase BB Antibody (Center) - Protein Information****Name** CKB ([HGNC:1991](#))

## Synonyms CKBB

### Function

Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate) (PubMed:<a href="http://www.uniprot.org/citations/8186255" target="\_blank">8186255</a>). 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 (Probable). 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 (By similarity). 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 (By similarity).

### Cellular Location

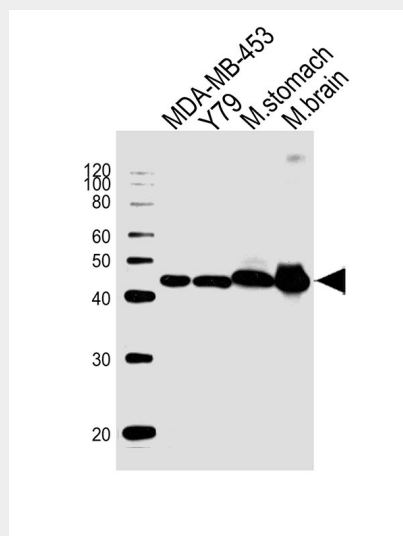
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q04447}. Mitochondrion {ECO:0000250|UniProtKB:Q04447}. Cell membrane. Note=Localizes to the mitochondria of thermogenic fat cells via the internal MTS-like signal (iMTS-L) region {ECO:0000250|UniProtKB:Q04447}

## Creatine Kinase BB Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Creatine Kinase BB Antibody (Center) - Images



Western blot analysis of lysates from MDA-MB-453,Y79 cell line,mouse stomach,mouse brain tissue lysate(from left to right), using Creatine Kinase BB (CKB) Antibody (Center)(Cat. #AW5061).

AW5061 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

### **Creatine Kinase BB Antibody (Center) - Background**

Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). 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.

### **Creatine Kinase BB Antibody (Center) - References**

- Villarreal-Levy G., et al. Biochem. Biophys. Res. Commun. 144:1116-1127(1987).  
Mariman E.C.M., et al. Genomics 1:126-137(1987).  
Kaye F.J., et al. J. Clin. Invest. 79:1412-1420(1987).  
Mariman E.C.M., et al. Nucleic Acids Res. 17:6385-6385(1989).  
Ota T., et al. Nat. Genet. 36:40-45(2004).