

For Research Use Only

# CKM/CKB Polyclonal antibody

Catalog Number: 15891-1-AP

3 Publications



## Basic Information

### Catalog Number:

15891-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8678

### GenBank Accession Number:

BC007462

### GeneID (NCBI):

1158

### UNIPROT ID:

P06732

### Full Name:

creatine kinase, muscle

### Calculated MW:

381 aa, 43 kDa

### Observed MW:

43 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat

### Positive Controls:

WB : mouse heart tissue, mouse brain tissue, mouse skeletal muscle tissue

IHC : mouse heart tissue, rat heart tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Creatine Kinase, an enzyme important for energy metabolism in cells of high and fluctuating energy requirements, catalyses the reversible transfer of a phosphoryl group from phosphocreatine to ADP. CK isoenzymes (muscle, brain, sarcomeric, Ubiquitous-type) play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa. Inactivation of creatine kinase by gliotoxin was accompanied by the formation of a 37-kDa form of the enzyme. This oxidized form of creatine kinase was rapidly reconverted to the 42-kDa species by the addition of reducing agents concomitant with restoration of activity. (PMID: 10827185). This antibody can recognize both CKB and CKM due to the high homology.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nao Tamai	32203066	Spinal Cord	WB
David W Russ	32646455	Lipids Health Dis	WB
Adel Al Fatease	31022465	Nanomedicine	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

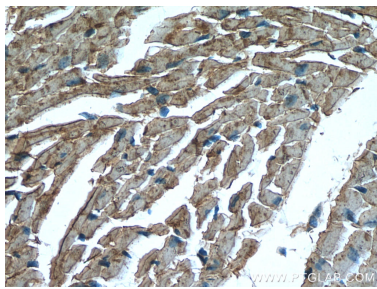
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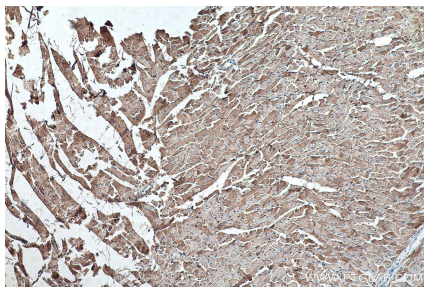
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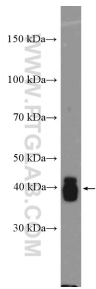
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 15891-1-AP (CKM/CKB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 15891-1-AP (CKM/CKB antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse heart tissue were subjected to SDS PAGE followed by western blot with 15891-1-AP (Creatine Kinase antibody at dilution of 1:20000) incubated at room temperature for 1.5 hours.