

For Research Use Only

# CKB/CKM Polyclonal antibody

Catalog Number: 15137-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

15137-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7285

### GenBank Accession Number:

BC001190

### GeneID (NCBI):

1152

### UNIPROT ID:

P12277

### Full Name:

creatine kinase, brain

### Calculated MW:

43 kDa

### Observed MW:

43 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

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

### Positive Controls:

WB: mouse brain tissue, HAP1 cells, mouse colon tissue, rat brain tissue

IP: mouse brain tissue,

IHC: mouse skeletal muscle tissue,

## Background Information

CKBB, also named as B-CK and CKB, is a member of the ATP:guanido phosphotransferase protein family. It is a cytoplasmic enzyme involved in energy homeostasis. CKBB reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in brain as well as in other tissues, and as a heterodimer with a similar muscle isozyme in heart. CK isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa. CK MB consists of a dimer of nonidentical chains. With MM being the major form in skeletal muscle and myocardium, MB existing in myocardium, and BB existing in many tissues, especially brain. This antibody can recognize both CKB and CKM due to the high homology.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xin Li	31534118	Cell Death Dis	WB
Yi Lu	35276125	Toxicol Appl Pharmacol	WB,IF
Shanshan Hu	35749873	Food Chem	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

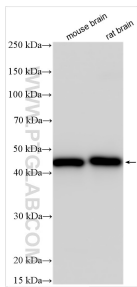
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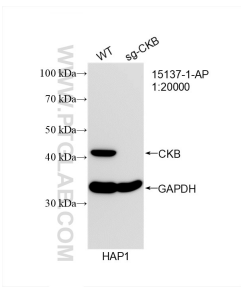
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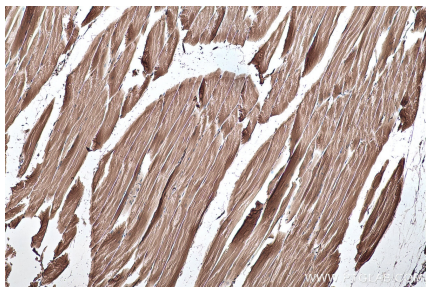
Selected Validation Data



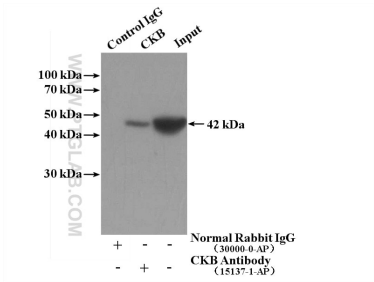
Various lysates were subjected to SDS PAGE followed by western blot with 15137-1-AP (CKB/CKM antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of sg-CKB antibody (15137-1-AP; 1:20000; room temperature for 1.5 hours) with wild-type and sg-CKB transfected HAP1 cells.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 15137-1-AP (CKB/CKM antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CKB/CKM (IP:15137-1-AP, 4ug; Detection:15137-1-AP 1:500) with mouse brain tissue lysate 4000ug.