For Research Use Only

CKB/CKM Polyclonal antibody

Catalog Number:15137-1-AP Featured Product 6 Publications

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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

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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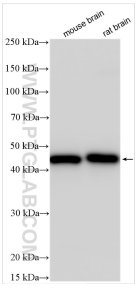
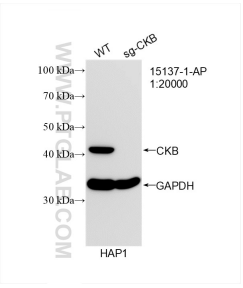
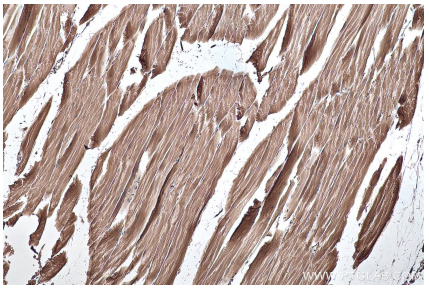
Selected Validation Data



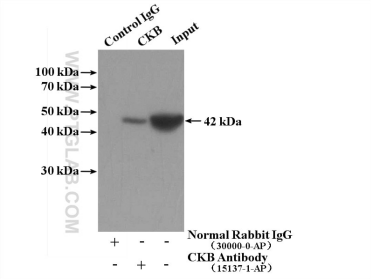
Various lysates were subjected to SDS PAGE followed by western blot with 15137-1-AP (CKB/CKM antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.