

For Research Use Only

CKM/CKB Polyclonal antibody

Catalog Number: 15891-1-AP **3 Publications**



Basic Information

Catalog Number: 15891-1-AP	GenBank Accession Number: BC007462	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1158	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Source: Rabbit	Full Name: creatine kinase, muscle	
Isotype: IgG	Calculated MW: 381 aa, 43 kDa	
Immunogen Catalog Number: AG8678	Observed MW: 43 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : mouse heart tissue, mouse brain tissue, mouse skeletal muscle tissue
Species Specificity: human, mouse, rat	IHC : mouse heart tissue, rat heart tissue
Cited Species: human, rat	
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

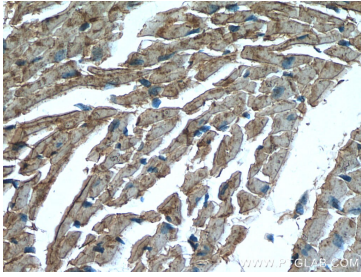
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

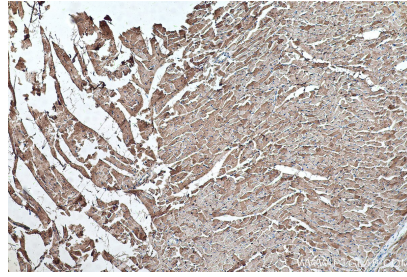
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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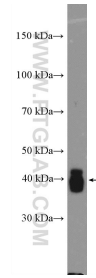
Selected Validation Data



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.