

For Research Use Only

CKM-Specific Polyclonal antibody

Catalog Number: 18712-1-AP **5 Publications**



Basic Information

Catalog Number: 18712-1-AP	GenBank Accession Number: BC007462	Purification Method: Antigen affinity purification
Size: 350 µg/ml	GeneID (NCBI): 1158	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P06732	
Isotype: IgG	Full Name: creatine kinase, muscle	
	Calculated MW: 43 kDa	
	Observed MW: 43 kDa	

Applications

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

CKM, also named as CKMM and M-CK, is a member of the ATP:guanido phosphotransferase protein family. It is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. CKM reversibly catalyzes the transfer of phosphate between ATP and various phosphagens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain 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. 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 is specific to CKM.

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Hao	32990380	Cell Prolif	WB
Eric P Mosher	34561299	Mol Pharmacol	WB
Ying Li	34548056	BMC Musculoskelet Disord	WB

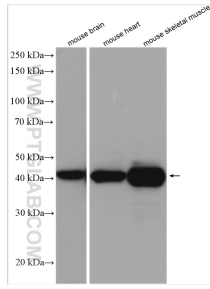
Storage

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

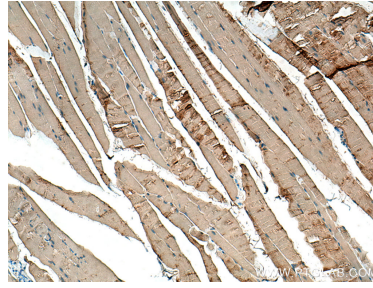
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18712-1-AP (CKM-Specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 18712-1-AP (CKM-Specific antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).