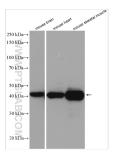
For Research Use Only

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:	GeneID (NCBI):	Recommended Dilutions:	
	150ul, Concentration: 350 ug/ml by	1158	WB 1:5000-1:50000	
	Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	UNIPROT ID: P06732	IHC 1:50-1:500	
	Source: Rabbit	Full Name: creatine kinase, muscle		
	Isotype: IgG	Calculated MW: 43 kDa		
		Observed MW: 43 kDa		
Applications	Tested Applications:	Posit	Positive Controls:	
	WB, IHC, ELISA Cited Applications:		mouse brain tissue, mouse heart tissue, mouse l intestine tissue, mouse sketetal muscle tissue	
	WB Species Specificity: human, mouse, rat	IHC :	mouse skeletal muscle tissue, rat heart tissue	
	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			
	CKM, also named 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 phosphogens 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 the 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 exists in the myocardium, and BB exists in many tissues, especially the 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.			
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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 paraffinembedded 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).