

## Mouse Creatine Kinase, Muscle (CKM) Protein

Catalogue No.:abx066148



1. Walter and the know Gene sequencing extract of recombinant Mouse Creatine Kinase, Muscle (CKM) Protein.

Recombinant Creatine Kinase, Muscle (CKM) is a recombinant Mouse protein produced in a Prokaryotic expression system (E. coli).

Target:	Creatine Kinase, Muscle (CKM)	
Origin:	Mouse	
Expression:	Recombinant	
Tested Applications:	WB, SDS-PAGE	
Host:	E. coli	
Conjugation:	Unconjugated	
Form:	Lyophilized	
Purity:	> 95%	
Reconstitution:	To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in $ddH_2O$ . If a lower concentration is required, dilute in 20 mM Tris, 150 mM NaCl, pH 8.0. If a higher concentration is required, the product can be reconstituted directly in 20 mM Tris, 150 mM NaCl, pH 8.0, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.	
v1.0.0	Abbaya LTD, Combridge, LW, Dhanes +44 (0) 1222 755050 . Fav: +44 (0) 1222 755051	2



Storage:	Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P07310 ( <u>UniProt</u> , <u>ExPASy</u> )
KEGG:	mmu:12715
String:	10090.ENSMUSP0000003643
Molecular Weight:	<ul> <li>Calculated MW: 41.8 kDa</li> <li>Observed MW (SDS-PAGE): 45 kDa</li> <li>Possible reasons why the actual band size differs from the predicted band size:</li> <li>1. Splice variants. Alternative splicing may create different sized proteins from the same gene.</li> <li>2. Relative charge. The composition of amino acids may affect the charge of the protein.</li> <li>3. Post-translational modification. Phosphorylation, glycoslyation, methylation etc. may affect the band size.</li> <li>4. Post-translational cleavage. Many proteins are synthesised as pro-proteins, and then cleaved to give the active form.</li> <li>5. Polymerisation of the target protein. Dimerisation, multimerisation etc. will increase the band size observed.</li> </ul>
Sequence Fragment:	Lys11-Leu367
Sequence:	KLNYKPQEEY PDLSKHNNHM AKVLTPDLYN KLRDKETPSG FTLDDVIQTG VDNPGHPFIM TVGCVAGDEE SYTVFKDLFD PIIQDRHGGY KPTDKHKTDL NHENLKGGDD LDPNYVLSSR VRTGRSIKGY TLPPHCSRGE RRAVEKLSVE ALNSLTGEFK GKYYPLKSMT EQEQQQLIDD HFLFDKPVSP LLLASGMARD WPDARGIWHN DNKSFLVWVN EEDHLRVISM EKGGNMKEVF RRFCVGLQKI EEIFKKAGHP FMWNEHLGYV LTCPSNLGTG LRGGVHVKLA NLSKHPKFEE ILTRLRLQKR GTGGVDTAAV GAVFDISNAD RLGSSEVEQV QLVVDGVKLM VEMEKKL
Tag:	N-terminal His tag
Buffer:	Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.01% Sarcosyl, 5% Trehalose, 1 mM EDTA, 1 mM DTT and Proclin-300.
Activity:	Not tested
Concentration:	Prior to lyophilization: 200 μg/ml
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.