

ARG57764 anti-CKMT2 antibody

Package: 25 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CKMT2
Tested Reactivity	Hu
Predict Reactivity	Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CKMT2
Species	Human
Immunogen	Synthetic peptide corresponding a region of Human CKMT2.
Conjugation	Un-conjugated
Alternate Names	EC 2.7.3.2; S-MtCK; Basic-type mitochondrial creatine kinase; Creatine kinase S-type, mitochondrial; Mib-CK; Sarcomeric mitochondrial creatine kinase; SMTCK

Application Instructions

Application table	Application	Dilution
	IHC-P	4 - 8 µg/ml
	WB	1.25 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat cell lysate.	
Observed Size	~ 46 kDa	

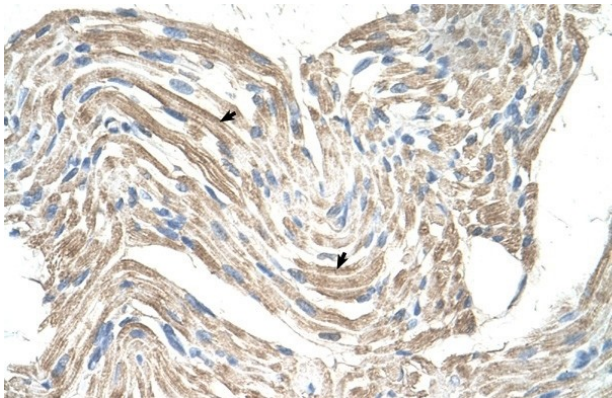
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 2% Sucrose.
Stabilizer	2% Sucrose
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

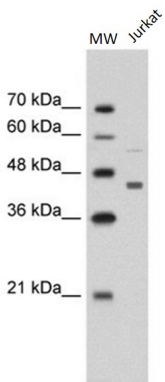
Gene Symbol	CKMT2
Gene Full Name	creatine kinase, mitochondrial 2 (sarcomeric)
Background	Mitochondrial creatine kinase (MtCK) is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme family. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by separate genes. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Sarcomeric mitochondrial creatine kinase has 80% homology with the coding exons of ubiquitous mitochondrial creatine kinase. This gene contains sequences homologous to several motifs that are shared among some nuclear genes encoding mitochondrial proteins and thus may be essential for the coordinated activation of these genes during mitochondrial biogenesis. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa. [UniProt]
Calculated Mw	48 kDa

Images



ARG57764 anti-CKMT2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human skeletal muscle stained with ARG57764 anti-CKMT2 antibody.



ARG57764 anti-CKMT2 antibody WB image

Western blot: Jurkat cell lysate stained with ARG57764 anti-CKMT2 antibody at 1.25 µg/ml dilution.