

Datasheet for ABIN2776839
anti-CKMT2 antibody (N-Term)[Go to Product page](#)

2 Images

2 Publications

Overview

Quantity:	100 µL
Target:	CKMT2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Pig, Rabbit, Cow, Zebrafish (Danio rerio), Horse, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CKMT2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human CKMT2
Sequence:	GTSVLTTGYL LNRQKVCAEV REQPRLFPPS ADYPDLRKHN NCMAECLTPA
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against CKMT2. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	CKMT2
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Target Details

Alternative Name: CKMT2 ([CKMT2 Products](#))

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. 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.

Alias Symbols: SMTCK

Protein Interaction Partner: UBC, ABHD6, TMED9, ELN, PSMD4, LRIF1, OLFML3, UNC119, CKMT2,

Protein Size: 419

Molecular Weight: 46 kDa

Gene ID: 1160

NCBI Accession: [NM_001825](#), [NP_001816](#)

UniProt: [P17540](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 419 AA

Restrictions: For Research Use only

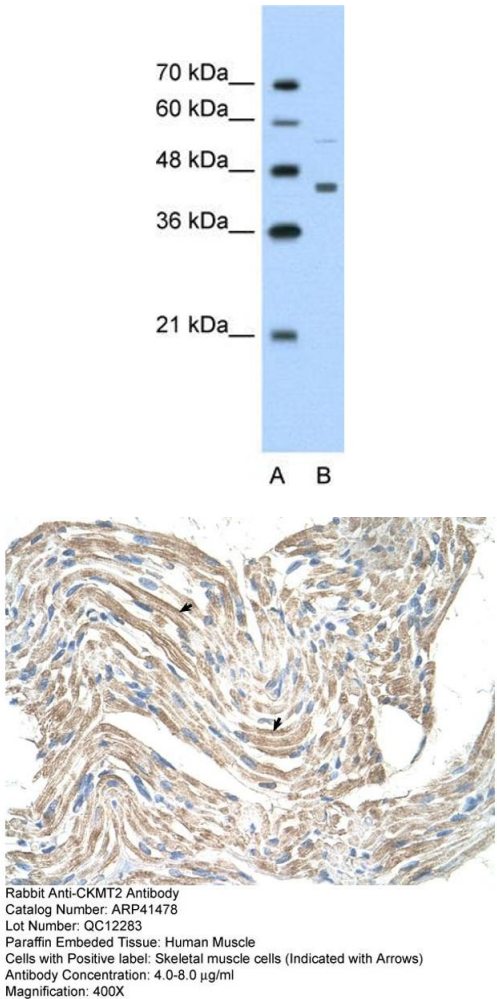
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	<p>Palmieri, Gojis, Rudraraju, Stamp-Vincent, Wilson, Langdon, Gourley, Faratian: "Expression of steroid receptor coactivator 3 in ovarian epithelial cancer is a poor prognostic factor and a marker for platinum resistance." in: British journal of cancer, Vol. 108, Issue 10, pp. 2039-44, (2013) (PubMed).</p> <p>Viringipurampeer, Ferreira, DeMaria, Yoon, Shan, Moosajee, Gregory-Evans, Ngai, Gregory-Evans : "Pax2 regulates a fadd-dependent molecular switch that drives tissue fusion during eye development." in: Human molecular genetics, Vol. 21, Issue 10, pp. 2357-69, (2012) (PubMed).</p> <p>Lee, Doberstein, Baumgarten, Wieland, Ungerer, Bürger, Hardt, Boehncke, Pfeilschifter, Mihic-Probst, Mittelbronn, Gutwein: "PAX2 regulates ADAM10 expression and mediates anchorage-independent cell growth of melanoma cells." in: PLoS ONE, Vol. 6, Issue 8, pp. e22312, (2011) (PubMed).</p> <p>Yu, Moriniere, Birke, Neumann, Fuchshofer, Kampik, Bloemendal, Welge-Lussen: "Reactivation of optic nerve head astrocytes by TGF-beta2 and H2O2 is accompanied by increased Hsp32 and Hsp47 expression." in: Investigative ophthalmology & visual science, Vol. 50, Issue 4, pp. 1707-17, (2009) (PubMed).</p> <p>Hurtado, Holmes, Geistlinger, Hutcheson, Nicholson, Brown, Jiang, Howat, Ali, Carroll: "</p>
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Regulation of ERBB2 by oestrogen receptor-PAX2 determines response to tamoxifen." in:
Nature, Vol. 456, Issue 7222, pp. 663-6, (2008) ([PubMed](#)).



Western Blotting

Image 1. WB Suggested Anti-CKMT2 Antibody Titration:
1.25ug/ml Positive Control: Jurkat cell lysate

Immunohistochemistry

Image 2. Rabbit Anti-CKMT2 Antibody Paraffin Embedded
Tissue: Human Muscle Cellular Data: Skeletal muscle cells
Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X