

ARG57033 anti-CKMT1A antibody [17A2]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [17A2] recognizes CKMT1A
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	17A2
Isotype	IgG2b, kappa
Target Name	CKMT1A
Species	Human
Immunogen	Recombinant fragment around aa. 40-417 of Human CKMT1A.
Conjugation	Un-conjugated
Alternate Names	CKMT1; U-MtCK; mia-CK

Application Instructions

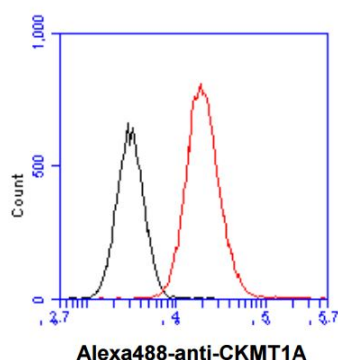
Application table	Application	Dilution
	FACS	Assay-dependent
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
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. 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.
Note	For laboratory research only, not for drug, diagnostic or other use.

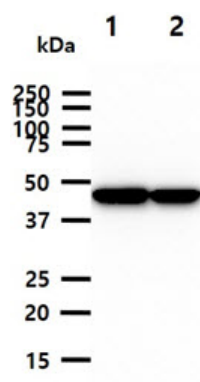
Database links	GeneID: 548596 Human Swiss-port # P12532 Human
Gene Symbol	CKMT1A
Gene Full Name	creatine kinase, mitochondrial 1A
Background	<p>Mitochondrial creatine (MtCK) kinase is responsible for the transfer of high energy phosphate from mitochondria to the cytosolic carrier, creatine. It belongs 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. Many malignant cancers with poor prognosis have shown overexpression of ubiquitous mitochondrial creatine kinase; this may be related to high energy turnover and failure to eliminate cancer cells via apoptosis. Ubiquitous mitochondrial creatine kinase has 80% homology with the coding exons of sarcomeric mitochondrial creatine kinase. Two genes located near each other on chromosome 15 have been identified which encode identical mitochondrial creatine kinase proteins. [provided by RefSeq, Jul 2008]</p>
Function	<p>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]</p>
Calculated Mw	47 kDa

Images



ARG57033 anti-CKMT1A antibody [17A2] FACS image

Flow Cytometry: HeLa cell line stained with ARG57033 anti-CKMT1A antibody [17A2] at 2-5 μ g for 1×10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG57033 anti-CKMT1A antibody [17A2] WB image

Western blot: 40 μ g of 1) 293T cell lysate, and 2) HeLa cell lysate stained with ARG57033 anti-CKMT1A antibody [17A2] at 1:1000.