

Mouse anti-Human, mouse Creatine Kinase BB Monoclonal Antibody | anti-CKB antibody

Creatine Kinase BB Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283599	Mouse	Human, mouse	Flow Cytometry, Functional Assay, Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Dot Blot

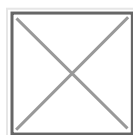
PRODUCT SYNONYMS

Creatine Kinase BB; Monoclonal Antibody; Creatine Kinase BB Antibody (Center); Creatine kinase B-type; B-CK; Creatine kinase B chain; CKB; CKBB; anti-CKB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	893CT29.1.1
Specificity	Purified His-tagged CKB protein was used to produced this monoclonal antibody.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	381
Applicable Applications for anti-CKB antibody	Cell Culture, FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), DB (Dot Blot)
Function	Catalyzes the transfer of phosphate between ATP and various phosphogens. 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 (Probable). Acts a key regulator of adapative thermogenesis as part of mediating phosphorylation of creatine to initiate a futile cycle of creative phosphorylation and dephosphorylation (By similarity). During the futile cycle, which dissipates the high energy charge of energy of N-phosprecreatine as heat without performing any mechanical or chemical work (By similarity).
Cellular location	Cytoplasm, cytosol [ECO:0000250 UniProtKB:Q04447] Mitochondrion {ECO:0000250 UniProtkb: Q04447} Note= Localizes to the mitochondria of thermogenic fat cells via the internal MTS-like signal (iMTS-L) region [ECO:0000250 UniProtKB: Q04447].
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

Creatine Kinase BB (CKB) Antibody (Center) western blot analysis in MDA-MB453,293,Y79 cell line,mouse stomach and brain tissue lysates (35ug/lane).This demonstrates the CKB antibody detected the CKB protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CKB antibody	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.
Product Categories/Family for anti-CKB antibody	Crown Antibodies; Cancer; Cardiovascular; Cell Biology; Metabolism; Signal Transduction
References	Villarreal-Levy G., et al. Biochem. Biophys. Res. Commun. 144:1116-1127(1987). Mariman E.C.M., et al. Genomics 1:126-137(1987). Kaye F.J., et al. J. Clin. Invest. 79:1412-1420(1987). Mariman E.C.M., et al. Nucleic Acids Res. 17:6385-6385(1989). Ota T., et al. Nat. Genet. 36:40-45(2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	21536286
NCBI GeneID	1152
NCBI Accession #	NP_001814.2
NCBI GenBank Nucleotide #	NM_001823.4
UniProt Accession #	P12277; Q2LE07; Q6FG40; Q9UC66; A8K236; B2R5R4
Molecular Weight	Calculated MW: 42644
NCBI Official Full Name	creatine kinase B-type
NCBI Official Synonym Full Names	creatine kinase, brain
NCBI Official Symbol	CKB
NCBI Official Synonym Symbols	BCK; B-CK; CKBB; HEL-211; HEL-S-29
NCBI Protein Information	creatine kinase B-type
UniProt Protein Name	Creatine kinase B-type
UniProt Gene Name	CKB
UniProt Synonym Gene Names	CKBB
UniProt Entry Name	KCRB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/creatine-kinase-bb-antibody-clone-893ct29-1-1-flow-cytometry-immunoprecipitation-immunofluorescence-immunohistochemistry-dot-blot-elisa/283599>