

[KD]Creatine Kinase B type Rabbit mAb

Catalog # AP75289

Product Information

Application	WB, IHC-P, FC
Primary Accession	P12277
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	42644

Additional Information

Gene ID	1152
Other Names	CKB
Dilution	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:10-1:100
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

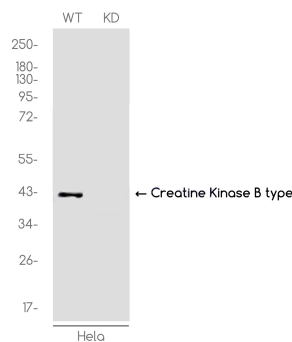
Name	CKB (HGNC:1991)
Synonyms	CKBB
Function	Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate) (PubMed:8186255). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa (Probable). Acts as a key regulator of adaptive thermogenesis as part of the futile creatine cycle: localizes to the mitochondria of thermogenic fat cells and acts by mediating phosphorylation of creatine to initiate a futile cycle of creatine phosphorylation and dephosphorylation (By similarity). During the futile creatine cycle, creatine and N-phosphocreatine are in a futile cycle, which dissipates the high energy charge of N- phosphocreatine as heat without performing any mechanical or chemical work (By similarity).
Cellular Location	Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q04447}. Mitochondrion

{ECO:0000250|UniProtKB:Q04447}. Cell membrane. Note=Localizes to the mitochondria of thermogenic fat cells via the internal MTS-like signal (iMTS-L) region {ECO:0000250|UniProtKB:Q04447}

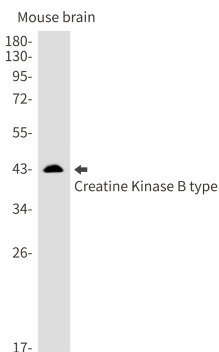
Background

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.

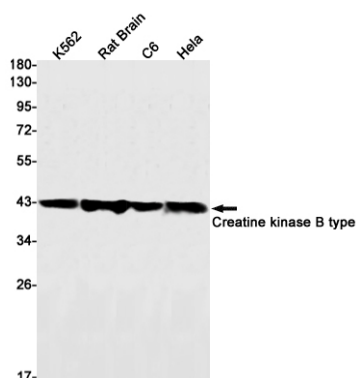
Images



Western blot analysis of Creatine Kinase B type in HeLa(WT) and Creatine Kinase B type-Knockdown HeLa(KD) using Creatine Kinase B type antibody.

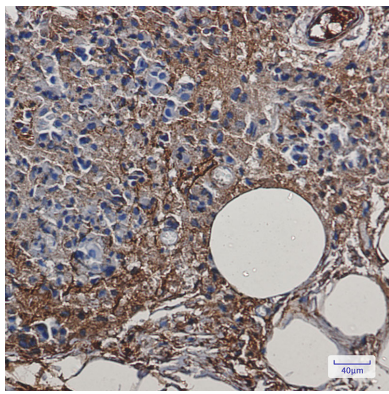


Western blot analysis of Creatine Kinase B type in mouse brain lysates using Creatine Kinase B type antibody.



Western blot analysis of Creatine kinase B type in K562, rat Brain, C6, HeLa lysates using Creatine kinase B type antibody.

Immunohistochemistry analysis of paraffin-embedded Human breast cancer using Creatine kinase B type antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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