

KD-Validated Anti-Creatine Kinase B type Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1811**Specification****KD-Validated Anti-Creatine Kinase B type Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P12277
Reactivity	Rat, Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 43 kDa, observed, 43 kDa KDa
Gene Name	CKB
Aliases	CKB; Creatine Kinase B; CKBB; Creatine Phosphokinase B-Type; Creatine Kinase Brain-Type; Creatine Kinase B Chain; Creatine Kinase B-Type; Brain Creatine Kinase; EC 2.7.3.2; CPK-B; B-CK; Epididymis Secretory Protein Li; Epididymis Luminal Protein 211; Creatine Kinase, Brain; Creatine Kinase Brain; HEL-S-29; EC 2.7.3; HEL-211; BCK
Immunogen	A synthesized peptide derived from human Creatine kinase B type

KD-Validated Anti-Creatine Kinase B type Rabbit Monoclonal Antibody - Additional Information**Gene ID** **1152****Other Names**

Creatine kinase B-type, 2.7.3.2, Brain creatine kinase, B-CK, Creatine kinase B chain, Creatine phosphokinase B-type, CPK-B, CKB (HGNC:1991), CKBB

KD-Validated Anti-Creatine Kinase B type Rabbit Monoclonal Antibody - 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

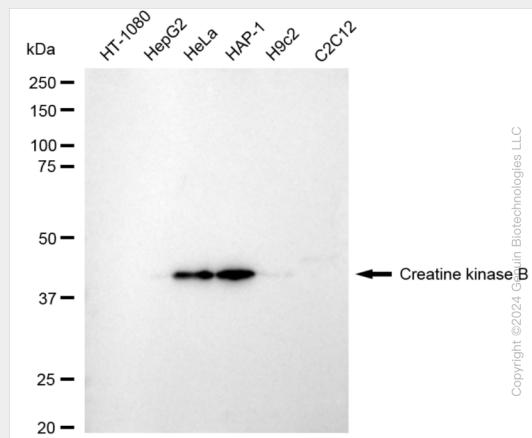
Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q04447}. Mitochondrion {ECO:0000250|UniProtKB:Q04447}. Cell membrane. Note=Localizes to the mitochondria of thermogenic fat cells via the internal MTS-like signal (iMTS-L) region {ECO:0000250|UniProtKB:Q04447}

KD-Validated Anti-Creatine Kinase B type Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

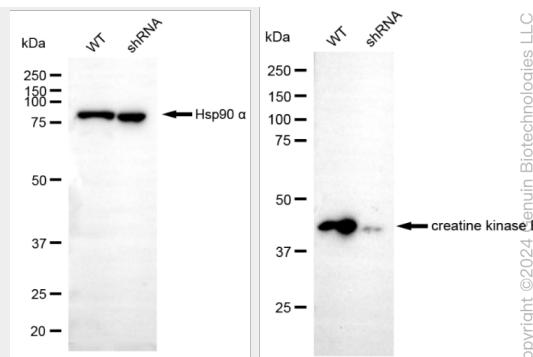
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Creatine Kinase B type Rabbit Monoclonal Antibody - Images

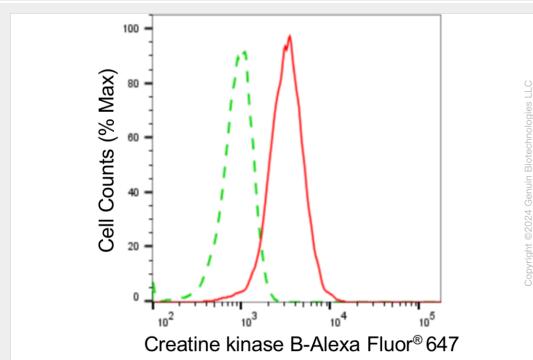


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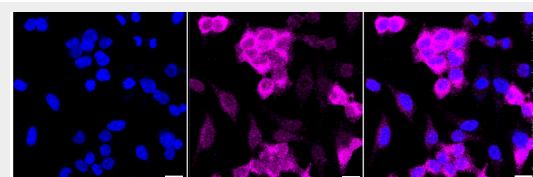
Western blotting analysis using anti-creatine kinase B antibody (Cat#AGI1811). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-creatine kinase B antibody (Cat#AGI1811, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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