

Product Name: KD-Validated Creatine Kinase B Mouse Monoclonal Antibody**Catalog #: KVA00612**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 42.6kDa

Antigen Information

Gene Name	CKB
Alternative Names	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 29; Epididymis Luminal Protein 211; Creatine Kinase, Brain; Creatine Kinase Brain; HEL-S-29; EC 2.7.3; HEL-211; BCK
Gene ID	1152.0
SwissProt ID	P12277
Immunogen	Recombinant protein of human Creatine Kinase B

Background

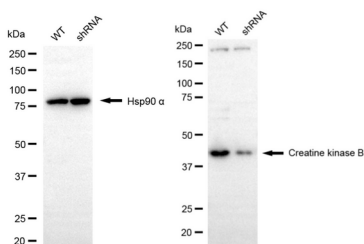
The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis. The encoded protein reversibly

catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in brain as well as in other tissues, and as a heterodimer with a similar muscle isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. A pseudogene of this gene has been characterized. [provided by RefSeq, Jul 2008]

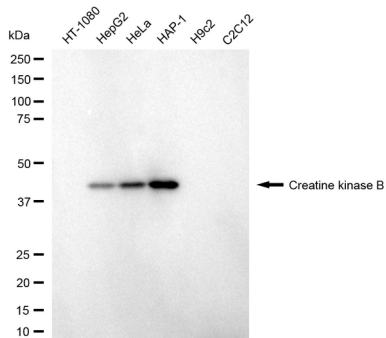
Research Area

Neuroscience,Signal Transduction,Cancer,Metabolism

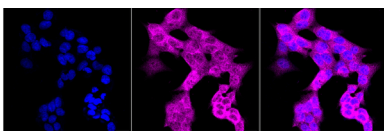
Image Data



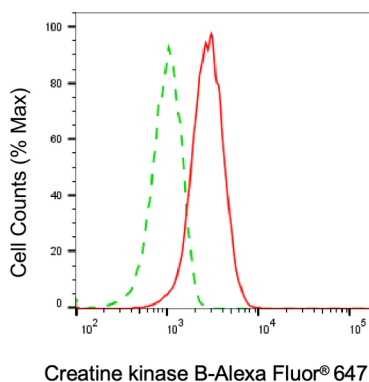
Western blotting analysis using creatine kinase B antibody (KVA00612). Creatine kinase B expression in wild-type (WT) and creatine kinase B (CKB) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with creatine kinase B antibody (KVA00612, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using creatine kinase B antibody (KVA00612). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with creatine kinase B antibody (KVA00612, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Creatine kinase B antibody (KVA00612, 1:1,000). Nuclei were stained blue with DAPI; Creatine kinase B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Creatine kinase B expression in HAP-1 cells using Creatine kinase B antibody (KVA00612, 1:2,000). Green, isotype control; red, Creatine kinase B.