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Anti-CKB / Creatine Kinase BB Antibody (aa100-150)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18462

Product Information

Application	WB, IHC-P
Primary Accession	P12277
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42644
Concentration (mg/ml)	0.5 mg/ml

Additional Information

Gene ID	1152
Alias Symbol	CKB
Other Names	CKB, CKBB, Creatine kinase-B, Creatine kinase, b chain, B-CK, Creatine kinase B chain, Creatine kinase B-type, Creatine kinase, brain
Target/Specificity	Endogenous levels of human, mouse, and rat Creatine kinase B. Positive Control: SH-SY5Y cell lysate, mouse brain and rat brain tissue lysates.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-CKB / Creatine Kinase BB Antibody (aa100-150) is for research use only and not for use in diagnostic or therapeutic procedures.

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}