

Anti-CKB / Creatine Kinase BB Antibody (aa100-150)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18462

Specification

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

Application	WB, IHC-P
Primary Accession	P12277
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42644

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

Anti-CKB / Creatine Kinase BB Antibody (aa100-150) - 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: <http://www.uniprot.org/citations/8186255> target="_blank">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}

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

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