

## Rabbit anti-Human Creatine kinase B Polyclonal Antibody | anti-CKB antibody

Anti-Creatine kinase B Antibody, Rabbit Polyclonal

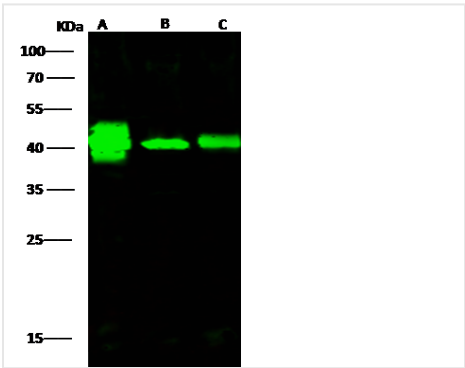
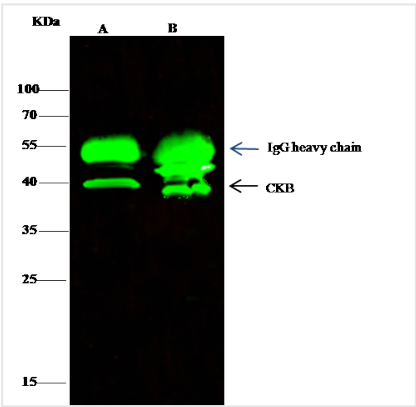
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                             |
|-----------|--------|------------|------------------------------------------|
| AAA255763 | Rabbit | Human      | Immunoprecipitation, ELISA, Western Blot |

### PRODUCT SYNONYMS

Creatine kinase B; Polyclonal Antibody; Anti-Creatine kinase B Antibody; Rabbit Polyclonal; CKB/Creatine kinase B type Antibody; Rabbit PAb; Antigen Affinity Purified; creatine kinase; brain; Anti-B-CK Antibody; Anti-BCK Antibody; Anti-CKBB Antibody; Anti-HEL-211 Antibody; Anti-HEL-S-29 Antibody; anti-CKB antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                    | Human                                                                                                                                                                                                                                                                 |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                       | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                   | Human CKB/Creatine kinase B type                                                                                                                                                                                                                                      |
| Purity/Purification                           | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                   | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-CKB antibody | IP (Immunoprecipitation), ELISA, WB (Western Blot)                                                                                                                                                                                                                    |
| Immunogen                                     | Recombinant Human CKB/Creatine kinase B type protein                                                                                                                                                                                                                  |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                   | Produced in rabbits immunized with purified, recombinant Human CKB/Creatine kinase B type (rh CKB/Creatine kinase B type). CKB/Creatine kinase B type specific IgG was purified by Human CKB/Creatine kinase B type affinity chromatography.                          |
| Preparation and Storage                       | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |



**WB (Western Blot)**  
Anti-CKB rabbit polyclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lane B: HeLa Whole Cell Lysate Lane C: A431 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 43 kDa Observed band size: 43 kDa

**IP (Immunoprecipitation)**  
CKB was immunoprecipitated using: Lane A: 0.5 mg A431 Whole Cell Lysate Lane B: 0.5 mg HeLa Whole Cell Lysate 2 uL anti-CKB rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-CKB rabbit polyclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 43 kDa Observed band size: 43 kDa

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CKB antibody | CKB(Creatine kinase B type) contains 1 phosphagen kinase C-terminal domain and 1 phosphagen kinase N-terminal domain. It belongs to the ATP:guanido phosphotransferase family. CKB consists of a homodimer of two identical brain-type CK-B subunits. CKB is a cytoplasmic enzyme involved in cellular energy homeostasis, with certain fractions of the enzyme being bound to cell membranes, ATPases, and a variety of ATP-requiring enzymes in the cell. There, CKB forms tightly coupled microcompartments for in situ regeneration of ATP that has been used up. CKB reversibly catalyzes the transfer of "energy-rich" phosphate between ATP and creatine or between phospho-creatine (PCr) and ADP. Its functional entity is a homodimer in brain, smooth muscle as well as in other tissues and cells such as neuronal cells, retina, kidney, bone etc. |
| References                                        | Wienker TF, et al. (1985) A dominant mutation causing ectopic expression of the creatine kinase B gene maps on chromosome 14. Cytogenet Cell Genet. 40:776. Mariman EC, et al. (1989) Complete nucleotide sequence of the human creatine kinase B gene. Nucleic Acids Res. 17(15):6385. Bong S, et al. (2008) Structural studies of human brain-type creatine kinase complexed with the ADP-Mg2+-NO3--creatine transition-state analogue complex. FEBS Letters. 582(28): 3959-65.                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 125294                                                                                                                                 |
| NCBI GeneID                      | 1152                                                                                                                                   |
| UniProt Accession #              | P12277; Q2LE07; Q6FG40; Q9UC66; A8K236; B2R5R4                                                                                         |
| Molecular Weight                 | 381                                                                                                                                    |
| NCBI Official Full Name          | Creatine kinase B-type                                                                                                                 |
| NCBI Official Synonym Full Names | creatine kinase, brain                                                                                                                 |
| NCBI Official Symbol             | CKB                                                                                                                                    |
| NCBI Official Synonym Symbols    | BCK; B-CK; CKBB; HEL-211; HEL-S-29                                                                                                     |
| NCBI Protein Information         | creatine kinase B-type; creatine kinase-B; creatine kinase B chain; epididymis luminal protein 211; epididymis secretory protein Li 29 |
| UniProt Protein Name             | Creatine kinase B-type                                                                                                                 |
| UniProt Gene Name                | CKB                                                                                                                                    |

|                            |            |
|----------------------------|------------|
| UniProt Synonym Gene Names | CKBB       |
| UniProt Entry Name         | KCRB_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/creatine-kinase-b-antibody-immunoprecipitation-western-blot-elisa/255763>