

Human Creatine kinase (brain) protein, His tag

Cat. No. GTX00246-pro

Applications	Functional Assay	Package 10 μg
Species	Human	13

Applications

Application Note

Creatine Kinase, Brain (CKB) also known as CK-BB is a creatine kinase. CKB, consists of a homodimer of two identical brain-type CK-B subunits, 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. Besides, Creatine Kinase, Muscle (CKM) has been identified as an interactor of CKB, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CKB and recombinant human CKM. Briefly, CKB were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μl were then transferred to CKM-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CKB pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of CKB and CKM was in a dose dependent manner.

Observed MW (kDa) 41 kDa.

Properties		
Form	Lyophilized powder	
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.	
Preservative	ProClin 300	
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.	
Region/Sequence	N-terminal His-Tag; Lys11~Leu367 (NP_001814.2)	
Expression System	E. coli	
Purity	> 95%	
Endotoxin	< 1 EU/μg	
Conjugation	Unconjugated	
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.	

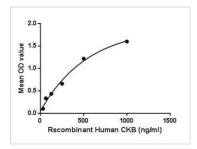


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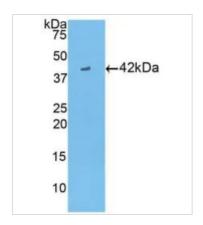


DATA IMAGES



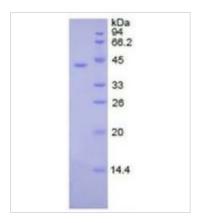
GTX00246-pro Functional Assay Image

Functional ELISA analysis of GTX00246-pro Human Creatine kinase (brain) protein which can bind immobilized FUS protein.



GTX00246-pro Image

WB analysis of GTX00246-pro Human Creatine kinase (brain) protein.



GTX00246-pro Image

SDS-PAGE analysis of GTX00246-pro Human Creatine kinase (brain) protein.



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