For Research Use Only

CKB Monoclonal antibody

Catalog Number:66764-1-Ig Featured Product 3 Publications

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Basic Information

Catalog Number:
66764-1-Ig

Size:
150ul , Concentration: 1300 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG7933

GenBank Accession Number:
BC001190

GeneID (NCBI):
1152

UNIPROT ID:
P12277

Full Name:
creatine kinase, brain

Calculated MW:
43 kDa

Observed MW:
43 kDa

Purification Method:
Protein A purification

CloneNo.:
2B7C3

Recommended Dilutions:
WB 1:10000-1:50000
IHC 1:500-1:2000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
Human, Mouse

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, HeLa cells

IHC : mouse brain tissue,

Background Information

CKBB, also named as B-CK and CKB, is a member of the ATP:guanido phosphotransferase protein family. It is a cytoplasmic enzyme involved in energy homeostasis. CKBB 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. CK isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa. CK MB consists of a dimer of nonidentical chains. With MM being the major form in skeletal muscle and myocardium, MB existing in myocardium, and BB existing in many tissues, especially brain.

Notable Publications

Author	Pubmed ID	Journal	Application
Jiale Zhu	35513225	Pharmacol Res	WB
Zhi-Jie Gao	38855191	Theranostics	IHC
Junwu Ren	38341962	Transl Oncol	WB

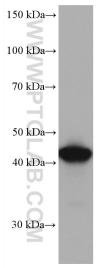
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

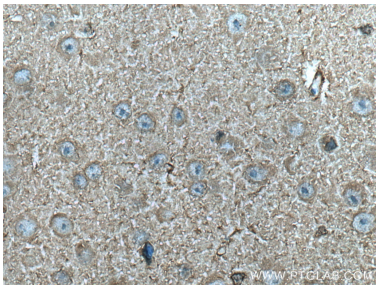
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 66764-1-Ig (CKB antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66764-1-Ig (CKB antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66764-1-Ig (CKB antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).