For Research Use Only

CAMK2B Polyclonal antibody

Catalog Number: 55218-1-AP



Basic Information

Catalog Number:

GenBank Accession Number:

Antigen affinity purification Recommended Dilutions:

Size:

55218-1-AP

NM 001220 GeneID (NCBI):

150ul, Concentration: 400 ug/ml by 816

Q13554

WB: 1:1000-1:6000 IHC: 1:20-1:200 IF/ICC: 1:20-1:200

Purification Method:

Nanodrop and 280 ug/ml by Bradford $\,$ UNIPROT ID: method using BSA as the standard;

Source: Full Name:

Rabbit calcium/calmodulin-dependent

Isotype: protein kinase II beta IgG Calculated MW:

> 73 kDa Observed MW: 55-60 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA Species Specificity:

human, mouse, rat

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: A549 cells, Hela cells, mouse brain tissue, mouse

cerebellum tissue

IHC: human skeletal muscle tissue, human brain

IF/ICC: HEK-293 cells,

Background Information

CaMKII beta (Calcium/calmodulin-dependent protein kinase type II subunit beta), also named as CAMK2B, CAM2 or CAMKB, belongs to the protein kinase superfamily, CAMK Ser/Thr protein kinase family and CaMK subfamily. It is a member of the NMDAR signaling complex in excitatory synapses, it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity. It plays a distinct role in the induction of anergy in T lymphocytes, by differential regulation of IL10 and IL2 gene transcription suggesting MEF2A as a molecular target which can integrate different $calcium\ signals\ (PMID: 22578382).\ CAMK2B\ has\ 8\ is oforms\ produced\ by\ alternative\ splicing\ with\ the\ molecular$ weight 50-73 kDa. This antibody is specific to CAMK2B and can recognize all the isoforms except isofom 7.

Storage

Storage:

Store at -20°C.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

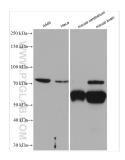
*** 20ul sizes contain 0.1% BSA

in USA), or 1(312) 455-8498 (outside USA)

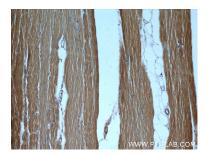
E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



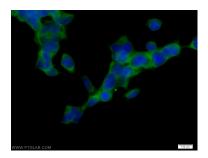
Various lysates were subjected to SDS PAGE followed by western blot with 55218-1-AP (CaMKII beta-Specific antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human skeletal muscle using 55218-1-AP (CaMKII beta antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human skeletal muscle using 55218-1-AP (CaMKII beta antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HEK-293 cells using 55218-1-AP (CaMKII beta antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).