For Research Use Only

PPP3CB-specific Polyclonal antibody

Catalog Number:55148-1-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
55148-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_021132

GeneID (NCBI):
5532

UNIPROT ID:
P16298

Full Name:
protein phosphatase 3 (formerly 2B), catalytic subunit, beta isoform

Calculated MW:
59 kDa

Observed MW:
59 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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 : NIH/3T3 cells, mouse brain tissue, fetal human brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : human heart tissue, mouse kidney tissue

IF/ICC : A431 cells,

Background Information

PPP3CB is one of the three isoforms of the A subunit of calcineurin (CnA). Calcineurin is a calcium-dependent serine/threonine phosphatase. It consists of two subunits: subunit A (CnA) and subunit B (CnB). For CnA, three isoforms PPP3CA (CnAα), PPP3CB (CnAβ) and PPP3CC (CnAγ) have been identified. PPP3CB is a calcium-dependent, calmodulin-stimulated protein phosphatase. It may have a role in the calmodulin activation of calcineurin. This antibody is specific to PPP3CB.

Notable Publications

Author	Pubmed ID	Journal	Application
Junnan Wu	26436650	J Clin Invest	WB,IHC,IF
Yue Zhao	28540409	J Mol Med (Berl)	WB,IHC
Yue Qin	35388181	Mol Psychiatry	WB

Storage

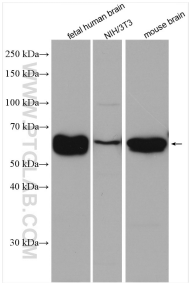
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

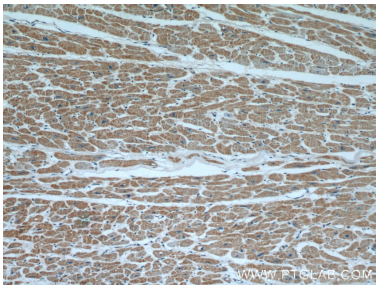
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

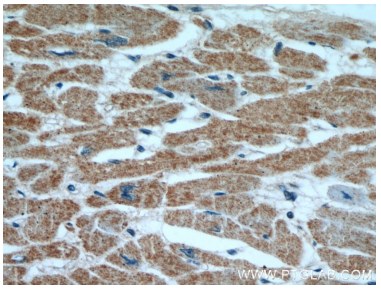
Selected Validation Data



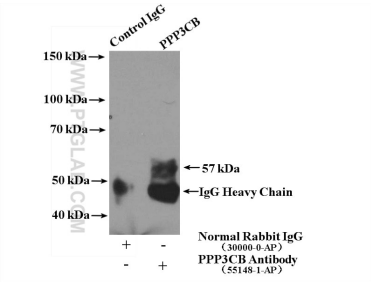
Various lysates were subjected to SDS PAGE followed by western blot with 55148-1-AP (PPP3CB-specific antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



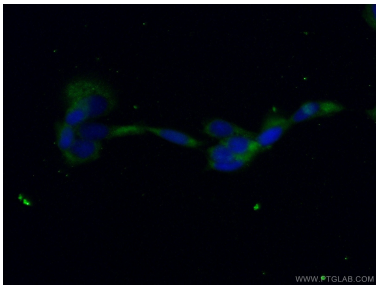
Immunohistochemical analysis of paraffin-embedded human heart using 55148-1-AP (PPP3CB-specific antibody) at dilution of 1:50 (under 10x lens).



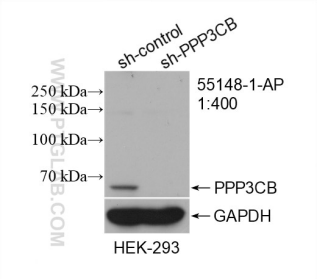
Immunohistochemical analysis of paraffin-embedded human heart using 55148-1-AP (PPP3CB-specific antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-PPP3CB-specific (IP:55148-1-AP, 4ug; Detection:55148-1-AP 1:500) with mouse brain tissue lysate 4000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed A431 cells using 55148-1-AP (PPP3CB-specific antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



WB result of PPP3CB-specific antibody (55148-1-AP; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-PPP3CB-specific transfected HEK-293 cells.