For Research Use Only

PPP1R15B Polyclonal antibody

Catalog Number:14634-1-AP Featured Product 19 Publications

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Basic Information

Catalog Number:
14634-1-AP

Size:
150ul , Concentration: 600 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6213

GenBank Accession Number:
BC065280

GeneID (NCBI):
84919

Full Name:
protein phosphatase 1, regulatory (inhibitor) subunit 15B

Calculated MW:
79 kDa

Observed MW:
100-110 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:200-1:800
IF 1:200-1:800

Applications

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

Cited Applications:
CoIP, IF, IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, 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 : A2780 cells, MCF-7 cells, HEK-293 cells, SGC-7901 cells, MDA-MB-231 cells, SKOV-3 cells

IP : MCF-7 cells,

IHC : mouse brain tissue, mouse cerebellum tissue

IF : SH-SY5Y cells, HepG2 cells

Background Information

Protein phosphatase 1 regulatory subunit 15B(PPP1R15B) is a member of PPP1R15 family, it forms a complex with protein phosphatase1(PP1) and NCK1/2, maintaining low levels of EIF2S1 phosphorylation in unstressed cells, thus is also named constitutive repressor of eIF2alpha phosphorylation (CReP). PPP1R15B is assoicated in endoplasmic reticulum (ER) stress response resulting to a role in translation regulation. Knock-down of PPP1R15B strongly protected mammalian cells against oxidative stress, peroxynitrite stress, and more modestly against accumulation of malfolded proteins in the ER. Recently, PPP1R15B was found to associate with cell membranes and regulate membrane traffic in a PP1c-independent manner, suggesting a novel link between translation and traffic. MW of PPP1R15B is 80 kDa. Observed MW of PPP1R15B is from 100-110 kDa maybe due to phosphorylation (PMID: 28492545).

Notable Publications

Author	Pubmed ID	Journal	Application
Rebecca R Miles	34597669	J Biol Chem	WB
Kyle Friend	26406898	PLoS One	WB
Kloft Nicole N	22915583	J Biol Chem	WB, CoIP

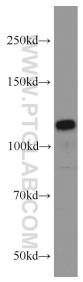
Storage

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

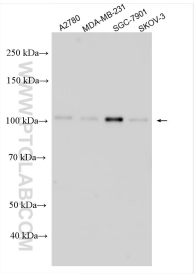
***** 20ul sizes contain 0.1% BSA**

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

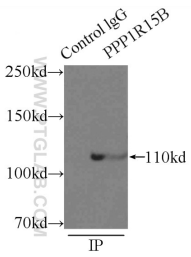
Selected Validation Data



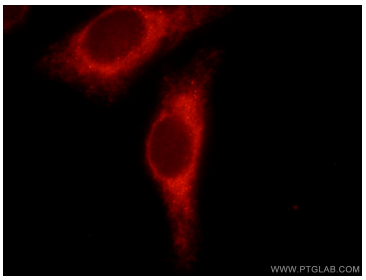
SGC-7901 cells were subjected to SDS PAGE followed by western blot with 14634-1-AP (PPP1R15B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



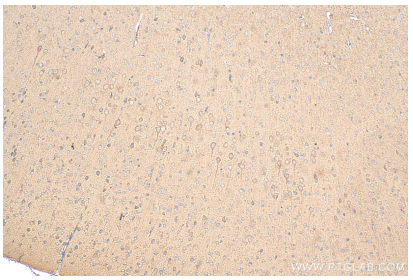
Various lysates were subjected to SDS PAGE followed by western blot with 14634-1-AP (PPP1R15B antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



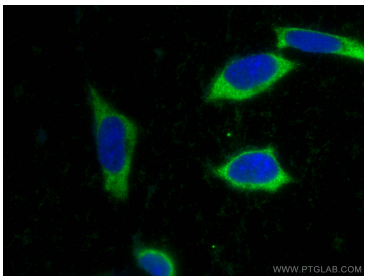
IP Result of anti-PPP1R15B;CReP (IP:14634-1-AP, 3ug; Detection:14634-1-AP 1:1000) with MCF-7 cells lysate 2500ug.



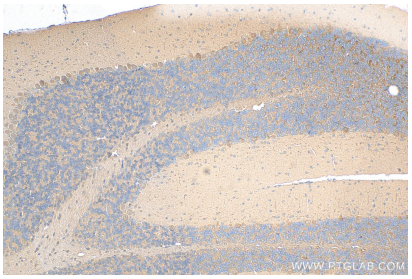
Immunofluorescent analysis of HepG2 cells using 14634-1-AP (PPP1R15B antibody) at dilution of 1:50 and Rhodamine-labeled goat anti-rabbit IgG .



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14634-1-AP (PPP1R15B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using PPP1R15B antibody (14634-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 14634-1-AP (PPP1R15B antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).