PPP1R15B Polyclonal antibody

Catalog Number: 14634-1-AP

### Basic Information

- **Catalog Number:** 14634-1-AP
- **Size:** 150μl, Concentration: 600μg/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 μg for IP and 1:500-1:2000 for WB
  - 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

### Background Information

Protein phosphatase 1 regulatory subunit 15B (PPP1R15B) is a member of PPP1R15 family, it forms a complex with protein phosphatase 1 (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 associated 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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
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<tbody>
<tr>
<td>Rebecca R Miles</td>
<td>34597669</td>
<td>J Biol Chem</td>
<td>WB</td>
</tr>
<tr>
<td>Kyle Friend</td>
<td>26406898</td>
<td>PLoS One</td>
<td>WB</td>
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<tr>
<td>Kloft Nicole N</td>
<td>22915583</td>
<td>J Biol Chem</td>
<td>WB, CoIP</td>
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### 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.

***20μl 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**

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).