Prohibitin 2 Polyclonal antibody

Catalog Number: 12295-1-AP

Basic Information

- **Catalog Number:** 12295-1-AP
- **Size:** 150μL, Concentration: 400 μg/ml by Bradford method using BSA as the standard
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG2977

- **GenBank Accession Number:** BC014766
- **GeneID (NCBI):** 11331
- **Full Name:** prohibitin 2
- **Calculated MW:** 299 aa, 33 kDa
- **Observed MW:** 33 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
- **WB** 1:2000-1:16000
- **IP** 0.5-4.0 μg for IP and 1:500-1:2000 for WB
- **IHC** 1:50-1:500
- **IF** 1:50-1:500

Applications

- **Tested Applications:** IF, IHC, IP, WB, ELISA
- **Cited Applications:** CoIP, IP, IHC, WB
- **Species Specificity:** human, mouse
- **Cited Species:** human, mouse, rat, rice

**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

PHB2, also named as BAP, REA, D-prohibitin, BAP37 and Prohibitin-2, belongs to the prohibitin family. It acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases. PHB2 functions as an estrogen receptor (ER)-selective coregulator that potentiates the inhibitory activities of antiestrogens and represses the activity of estrogens. It competes with NCOA1 for modulation of ER transcriptional activity. PHB2 is probably involved in regulating mitochondrial respiration activity and in aging. (PMID: 10359819)

Notable Publications

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<th>Author</th>
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<tr>
<td>Y Poitelon</td>
<td>26383514</td>
<td>Nat Commun</td>
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<tr>
<td>Minxue Zhang</td>
<td>31626975</td>
<td>Int J Biochem Cell Biol</td>
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<td>Sung-Gyu Cho</td>
<td>31126972</td>
<td>J Am Soc Nephrol</td>
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Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquotting is unnecessary for -20°C storage**

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.
Various lysates were subjected to SDS PAGE followed by western blot with 12295-1-AP (Prohibitin 2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12295-1-AP (Prohibitin 2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

IP Result of anti-Prohibitin 2 (IP:12295-1-AP, 3ug; Detection:12295-1-AP 1:1000) with HeLa cells lysate 1840ug.

Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 12295-1-AP (Prohibitin 2 antibody at dilution of 1:200 (under 10x lens).

Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 12295-1-AP (Prohibitin 2 antibody at dilution of 1:200 (under 40x lens).