PGRMC1 Polyclonal antibody

Catalog Number: 12990-1-AP

Basic Information

- **Catalog Number:** 12990-1-AP
- **Size:** 150 μl, Concentration: 1000 μg/ml by Nanodrop and 540 μg/ml by Bradford method using BSA as the standard
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG3643
- **GenBank Accession Number:** BC034238
- **GeneID (NCBI):** 10857
- **Full Name:** progesterone receptor membrane component 1
- **Calculated MW:** 195 aa, 22 kDa
- **Observed MW:** 22-28 kDa
- **Purification Method:** Antigen affinity purification
- **Recommended Dilutions:**
  - **WB:** 1:2000-1:12000
  - **IP:** 0.5-4.0 ug for IP and 1:500-1:2000 for WB
  - **IHC:** 1:50-1:500

Applications

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

**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

Progesterone receptor membrane component 1 (PGRMC1) is a member of a multi-protein progesterone-binding complex. However, PGRMC1 shares homology with cytochrome b5-related proteins rather than hormone receptors (PMID: 18992768). It is a heme binding protein with binding sites for Src homology (SH2) and SH3 domain-containing proteins (PMID: 17583495). PGRMC1 is overexpressed in a variety of cancers, and thus represents an important biomarker for cancer progression and a potential target for anticancer drugs (PMID: 21730960). In nonmalignant tissues, PGRMC1 is highly expressed in the liver and kidney (PMID: 9705155; 20164297).

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guangfeng Zhao</td>
<td>25232020</td>
<td>Biol Reprod</td>
<td>WB</td>
<td>WB</td>
</tr>
<tr>
<td>H L Cai</td>
<td>26485545</td>
<td>Transl Psychiatry</td>
<td>WB</td>
<td>WB</td>
</tr>
<tr>
<td>Uyen B Chu</td>
<td>26870805</td>
<td>EBioMedicine</td>
<td>WB</td>
<td>WB</td>
</tr>
</tbody>
</table>

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**

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.

*** 20ul sizes contain 0.1% BSA
Selected Validation Data

WB result of PGRMC1 antibody (12990-1-AP; 1:50000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PGRMC1 transfected HEK-293 cells.

Various lysates were subjected to SDS PAGE followed by western blot with 12990-1-AP (PGRMC1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 12990-1-AP (PGRMC1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 12990-1-AP (PGRMC1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

IP Result of anti-PGRMC1 (IP:12990-1-AP, 3ug; Detection:12990-1-AP 1:1000) with MCF-7 cells lysate 1600ug.