

For Research Use Only

# PGRMC1 Polyclonal antibody

Catalog Number: 12990-1-AP

Featured Product

18 Publications



## Basic Information

### Catalog Number:

12990-1-AP

### Size:

1000 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3643

### GenBank Accession Number:

BC034238

### GeneID (NCBI):

10857

### UNIPROT ID:

O00264

### 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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

WB, IF, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse, bovine

### Positive Controls:

WB: HEK-293 cells, mouse liver tissue, HepG2 cells, MCF-7 cells, mouse kidney tissue, mouse ovary tissue

IP: MCF-7 cells,

IHC: human cervical cancer tissue, human lung cancer tissue, human ovary tumor tissue, mouse kidney tissue, mouse ovary tissue

**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

Author	Pubmed ID	Journal	Application
Guangfeng Zhao	25232020	Biol Reprod	WB
H L Cai	26485545	Transl Psychiatry	WB
Uyen B Chu	26870805	EBioMedicine	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

For technical support and original validation data for this product please contact:

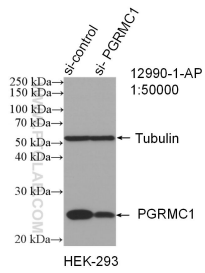
T: 4006900926

E: Proteintech-CN@ptglab.com

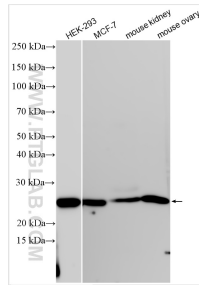
W: ptgcn.com

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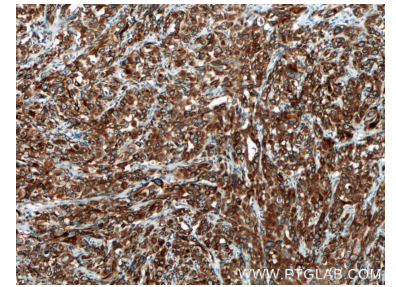
## Selected Validation Data



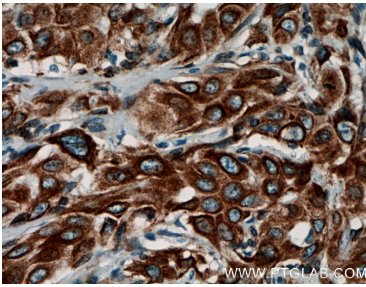
WB result of PGRMC1 antibody (12990-1-AP; 1:50000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PGRMC1 transfected HEK-293 cells.



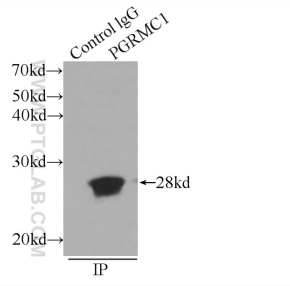
Various lysates were subjected to SDS PAGE followed by western blot with 12990-1-AP (PGRMC1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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.