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# Mouse Monoclonal Antibody to PGRMC1

Purified Mouse Monoclonal Antibody
Catalog # AO2363a

## Product Information

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| **Application** | WB, IHC, FC, ICC, E |
| **Primary Accession** | O00264 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 7G11G8 |
| **Isotype** | Mouse IgG1 |
| **Calculated MW** | 21671 |
| **Description** | This gene encodes a putative membrane-associated progesterone steroid receptor. The protein is expressed predominantly in the liver and kidney.; |
| **Immunogen** | Purified recombinant fragment of human PGRMC1 (AA: 1-195) expressed in E. Coli. |
| **Formulation** | Purified antibody in PBS with 0.05% sodium azide |
| **Application Note** | ELISA: 1/10000; WB: 1/500 - 1/2000; IHC: 1/200 - 1/1000; ICC: 1/200 - 1/1000; FCM: 1/200 - 1/400 |

## Additional Information

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| **Gene ID** | 10857 |
| **Other Names** | MPR; HPR6.6 |
| **Dilution** | WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A E~~N/A |
| **Storage** | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | Mouse Monoclonal Antibody to PGRMC1 is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | PGRMC1 ( HGNC:16090) |
| **Function** | Component of a progesterone-binding protein complex (PubMed: 28396637). Binds progesterone (PubMed:25675345). Has many reported cellular functions (heme homeostasis, interaction with CYPs). Required for the |

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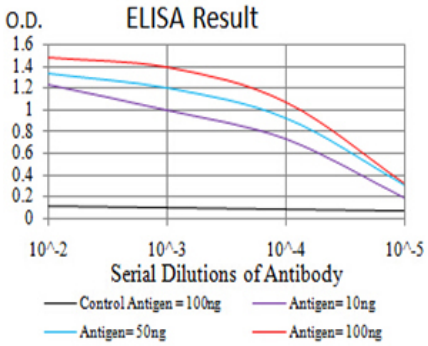
| | maintenance of uterine histoarchitecture and normal female reproductive lifespan (By similarity). Intracellular heme chaperone. Regulates heme synthesis via interactions with FECH and acts as a heme donor for at least some hemoproteins (PubMed:27599036). Forms a ternary complex with TMEM97 receptor and low density lipid receptor/LDLR, which increases LDLR-mediated LDL lipoprotein internalization (PubMed:30443021). |
| **Cellular Location** | Microsome membrane {ECO:0000250\|UniProtKB:Q95250}; Single-pass membrane protein. Smooth endoplasmic reticulum membrane; Single-pass membrane protein. Mitochondrion outer membrane {ECO:0000250\|UniProtKB:O55022}; Single-pass membrane protein; Extracellular side {ECO:0000250\|UniProtKB:O55022} Secreted Note=Localized at cell membrane, probably in lipid rafts, in serum- starved conditions. |
| **Tissue Location** | Detected in urine (at protein level) (PubMed:36213313, PubMed:37453717). Expressed by endometrial glands and stroma (at protein level) (PubMed:23793472). Widely expressed, with highest expression in liver and kidney. |

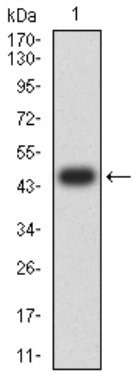
## References

1.Cancer Lett. 2015 Jan 28;356(2 Pt B):434-42. ; 2.Nan Fang Yi Ke Da Xue Xue Bao. 2012 May;32(5):635-8. ;

## Images

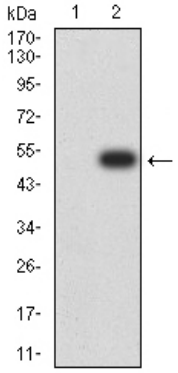


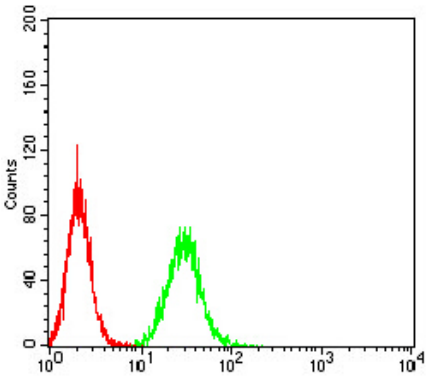

Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



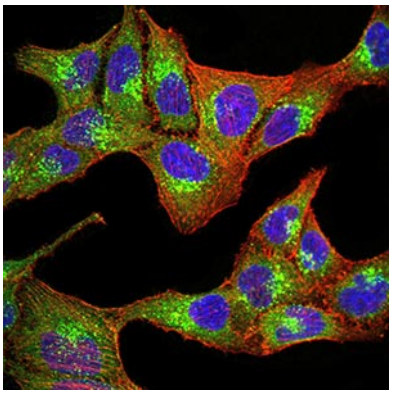

Western blot analysis using PGRMC1 mAb against human PGRMC1 (AA: 1-195) recombinant protein. (Expected MW is 47.6 kDa)

Western blot analysis using PGRMC1 mAb against HEK293 (1) and PGRMC1 (AA: 1-195)-hIgGFc transfected HEK293 (2) cell lysate.

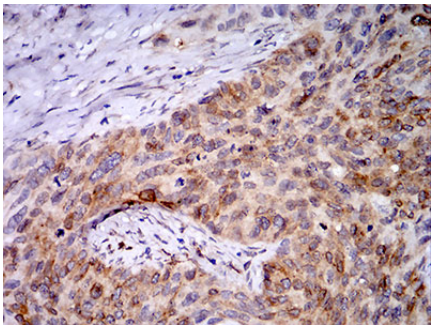


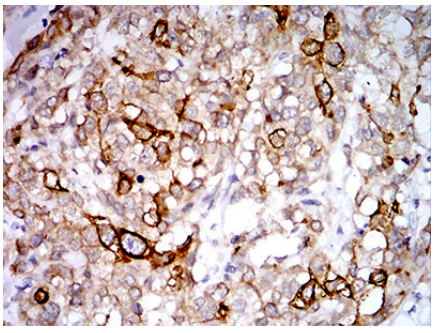

Flow cytometric analysis of A549 cells using PGRMC1 mouse mAb (green) and negative control (red).



Immunofluorescence analysis of SK-OV-3 cells using PGRMC1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher



Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using PGRMC1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded breast cancer tissues using PGRMC1 mouse mAb with DAB staining.