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Mouse Monoclonal Antibody to PGRMC1
Purified Mouse Monoclonal Antibody
Catalog # AO2363a

Specification

Mouse Monoclonal Antibody to PGRMC1 - Product Information

Application	**WB, IHC, FC, ICC, E**
Primary Accession	O00264
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**21.7kDa KDa**

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

Mouse Monoclonal Antibody to PGRMC1 - Additional Information

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.

Mouse Monoclonal Antibody to PGRMC1 - Protein Information

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 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.

Mouse Monoclonal Antibody to PGRMC1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Monoclonal Antibody to PGRMC1 - Images

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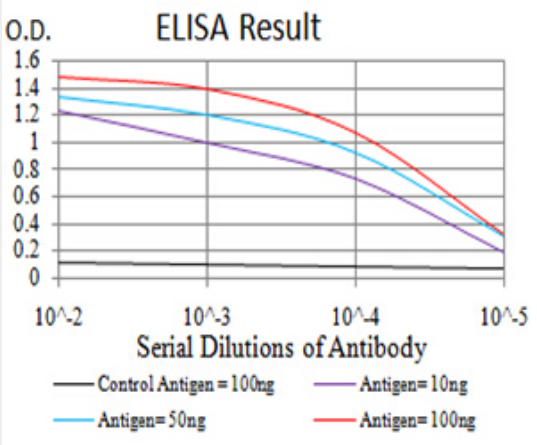
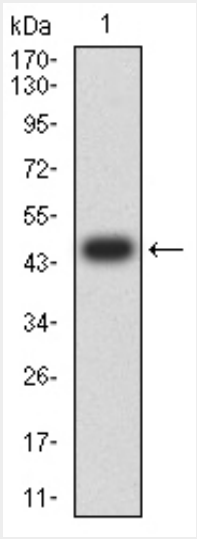
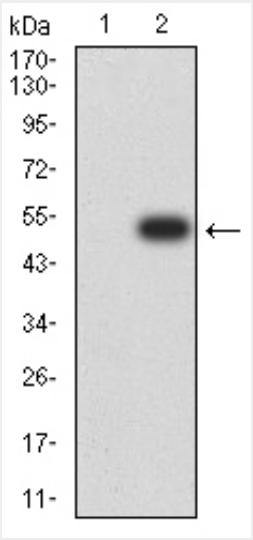


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



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.

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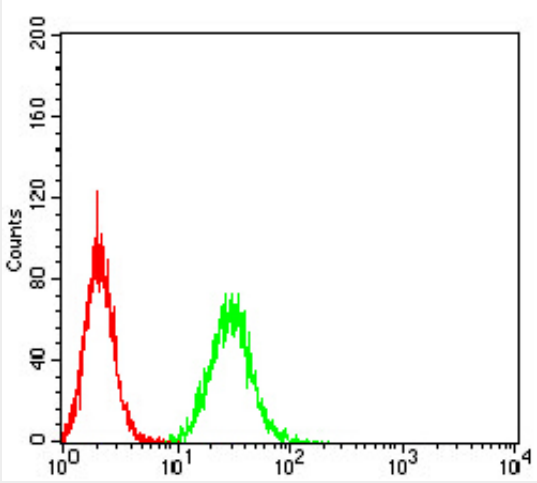
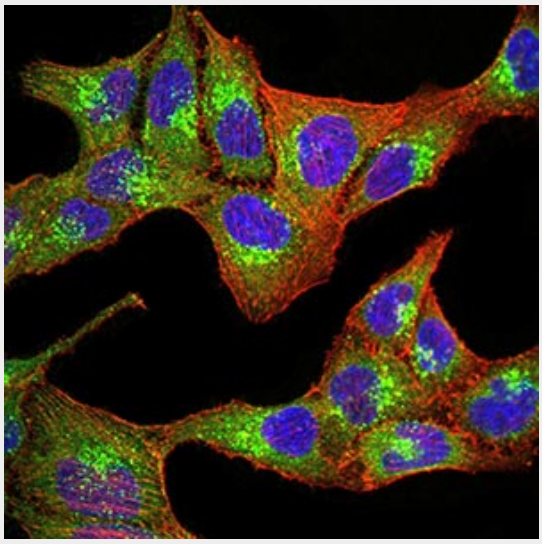
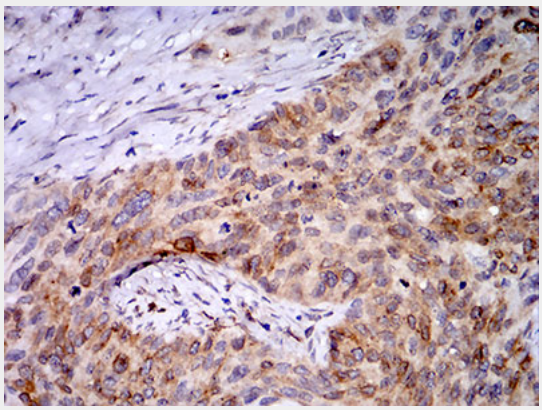


Flow cytometric analysis of A549 cells using PGRMC1 mouse mAb (green) and negative control (red).



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.

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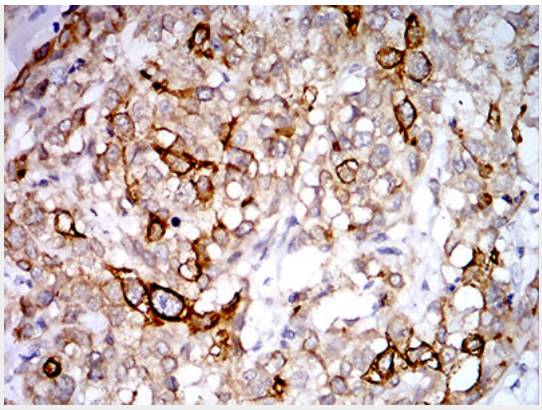

Immunohistochemical analysis of paraffin-embedded breast cancer tissues using PGRMC1 mouse mAb with DAB staining.

Mouse Monoclonal Antibody to PGRMC1 - 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. ;