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Mouse Monoclonal Antibody to PGRMC1

Purified Mouse Monoclonal Antibody
Catalog # AO2363a

Product Information

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

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

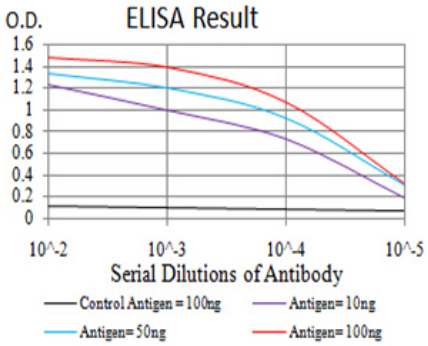
Name	PGRMC1 (HGNC:16090)
Function	Component of a progesterone-binding protein complex (PubMed: 28396637). Binds progesterone (PubMed:25675345). Has many reported cellular functions (heme homeostasis, interaction with CYPs). Required for the

	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.

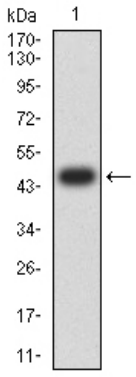
References

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

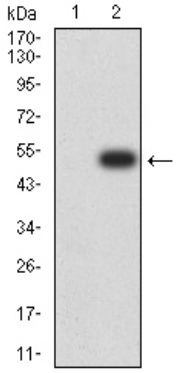


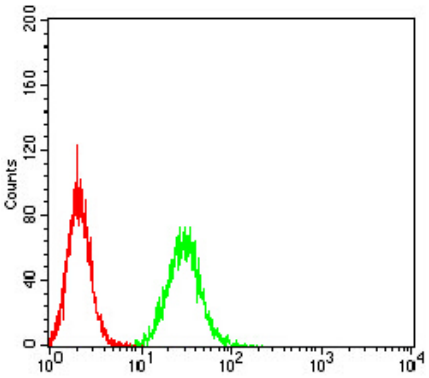
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



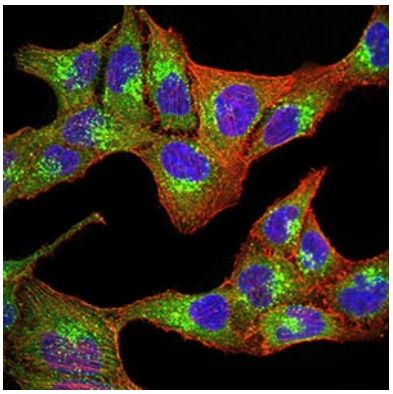
Western blot analysis using PGRMC1 mAb against human PGRMC1 (AA: 1-195) recombinant protein. (Expected MW is 47.6 kDa)

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

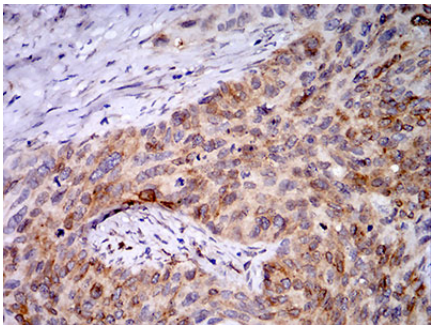




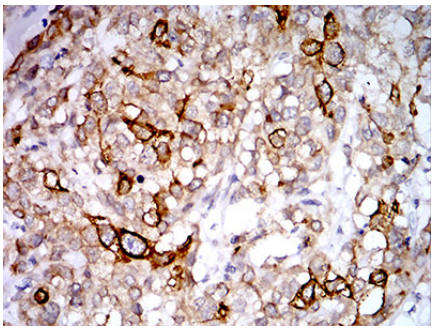
Flow cytometric analysis of A549 cells using PGRMC1 mouse mAb (green) and negative control (red).



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.

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