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Anti-PGRMC2 Antibody

Catalog # AP51427

Product Information

Application	WB, IHC
Primary Accession	O15173
Reactivity	Human, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23818

Additional Information

Gene ID	10424
Other Names	DG6; PMBP; Membrane-associated progesterone receptor component 2; Progesterone membrane-binding protein; Steroid receptor protein DG6
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PGRMC2. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

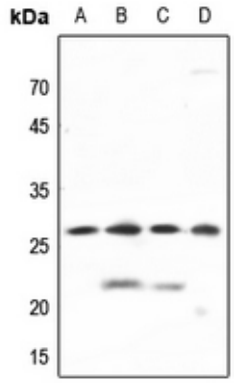
Protein Information

Name	PGRMC2 (HGNC:16089)
Function	Required for the maintenance of uterine histoarchitecture and normal female reproductive lifespan (By similarity). May serve as a universal non-classical progesterone receptor in the uterus (Probable). Intracellular heme chaperone required for delivery of labile, or signaling heme, to the nucleus (By similarity). Plays a role in adipocyte function and systemic glucose homeostasis (PubMed:28111073). In brown fat, which has a high demand for heme, delivery of labile heme in the nucleus regulates the activity of heme-responsive transcriptional repressors such as NR1D1 and BACH1 (By similarity).
Cellular Location	Membrane; Single- pass membrane protein. Nucleus envelope. Endoplasmic reticulum. Secreted
Tissue Location	Expressed by endometrial glands and stroma (at protein level) (PubMed:23793472). Detected in urine (at protein level) (PubMed:37453717).

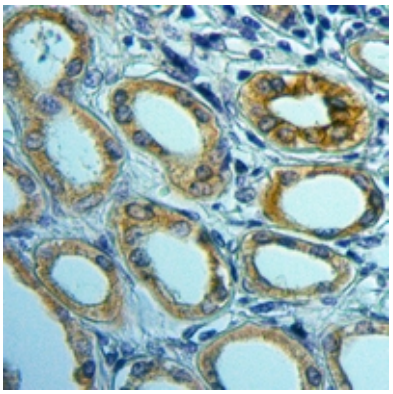
References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
Olsen J.V.,et al.Cell 127:635-648(2006).
Daub H.,et al.Mol. Cell 31:438-448(2008).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).

Images



Western blot analysis of PGRMC2 expression in HEK293T (A), Hela (B), HGC27 (C), rat liver (D) whole cell lysates. (Predicted band size: 23 kD; Observed band size: 23; 26 kD)



Immunohistochemical analysis of PGRMC2 staining in human kidney cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.