PGRMC2 (134.6): sc-100904

**BACKGROUND**

PGRMC2 (progesterone receptor membrane component 2), also known as DG6 (steroid receptor protein DG6) or PMBP (progesterone membrane-binding protein), is a single pass membrane protein belonging to the cytochrome P450 family (MAPR (membrane associated progesterone receptor) subfamily). Expressed in sperm, PGRMC2 is believed to function as a steroid receptor and may participate in the progesterone-dependent sperm acrosome reaction. PGRMC2 shares approximately 50% overall sequence identity with its close relative PGRMC1. The loss of the gene encoding PGRMC2 is associated with metastasis in uterine endocervical adenocarcinomas, implicating a potential role of PGRMC2 in the suppression of metastasis of endocervical adenocarcinomas.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PGRMC2 (human) mapping to 4q28.2; Pgrmc2 (mouse) mapping to 3 B.

**SOURCE**

PGRMC2 (134.6) is a mouse monoclonal antibody raised against recombinant PGRMC2 of human origin.

**PRODUCT**

Each vial contains 100 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

PGRMC2 (134.6) is recommended for detection of PGRMC2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PGRMC2 siRNA (h): sc-88944, PGRMC2 siRNA (m): sc-106403, PGRMC2 shRNA Plasmid (h): sc-88944-SH, PGRMC2 shRNA Plasmid (m): sc-106403-SH, PGRMC2 shRNA (h) Lentiviral Particles: sc-88944-V and PGRMC2 shRNA (m) Lentiviral Particles: sc-106403-V.

Molecular Weight of PGRMC2: 24 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.
2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

PGRMC2 (134.6) is recomended for detection of PGRMC2 expression in HeLa whole cell lysate.

PGRMC2 (134.6): sc-100904. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human stomach tissue showing cytoplasmic localization.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.