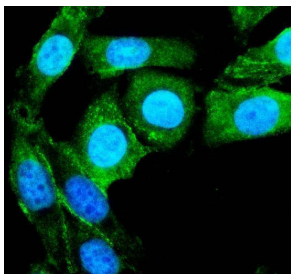
PGRMC2 Antibody / Progesterone receptor membrane component 2 Antibody (FY13534)

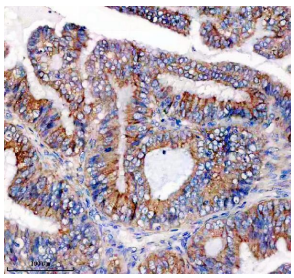
Catalog No.	Formulation	Size
FY13534	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

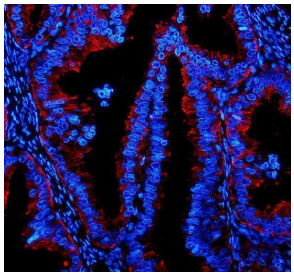
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	O15173
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml
Limitations	This PGRMC2 Antibody / Progesterone receptor membrane component 2 Antibody is intended for research use only.



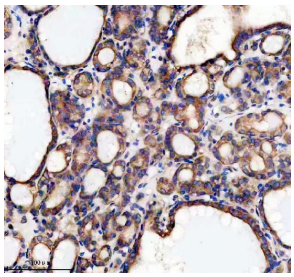
PGRMC2 Antibody by IF in HeLa cells. Immunofluorescence staining of human HeLa cells with Progesterone receptor membrane component 2 Antibody shows green fluorescence predominantly in the cytoplasmic compartment surrounding DAPI-stained blue nuclei. Cells underwent enzyme-mediated antigen retrieval for 15 minutes, were blocked with 10% goat serum, and incubated with primary antibody at 5 ug/mL overnight at 4oC. DyLight 488-conjugated secondary antibody was used at 1:500 for 30 minutes at 37oC. The image demonstrates cellular PGRMC2-associated immunoreactivity with nuclear counterstaining.



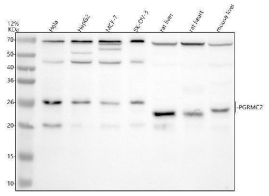
PGRMC2 Antibody by IHC in human endometrial carcinoma. Immunohistochemistry of paraffin-embedded human endometrial carcinoma using Progesterone receptor membrane component 2 Antibody reveals brown immunoreactivity in glandular tumor cells, with hematoxylin-counterstained nuclei. Sections underwent EDTA-based antigen retrieval at pH 8.0 and blocking with 10% goat serum. Primary antibody was applied at 2 ug/mL overnight at 4oC, followed by peroxidase-conjugated secondary detection and DAB development. The image illustrates PGRMC2-associated staining in endometrial tumor epithelium.



PGRMC2 Antibody by IF in human endometrial carcinoma. Immunofluorescence staining of a paraffin-embedded human endometrial carcinoma section with Progesterone receptor membrane component 2 Antibody shows red fluorescence in glandular tumor epithelium and blue DAPI-stained nuclei. Heat-mediated retrieval used EDTA buffer at pH 8.0. Following blocking with 10% goat serum, sections were incubated with primary antibody at 5 ug/mL overnight at 4oC. Cy3-conjugated secondary antibody was applied at 1:500 for 30 minutes at 37oC. The staining pattern demonstrates PGRMC2-associated signal in the tumor tissue.



PGRMC2 Antibody by IHC in human thyroid carcinoma. Immunohistochemistry of paraffin-embedded human thyroid carcinoma using Progesterone receptor membrane component 2 Antibody shows brown staining in cells surrounding follicle-like spaces, with blue hematoxylin nuclear counterstaining. EDTA buffer at pH 8.0 was used for heat-mediated antigen retrieval, followed by 10% goat serum blocking. Sections were incubated with primary antibody at 2 ug/mL overnight at 4oC and developed with a peroxidase-conjugated secondary reagent and DAB. This image provides additional tissue evidence of PGRMC2-associated immunoreactivity.



PGRMC2 Antibody by WB in human and rodent lysates. Western blot analysis using Progesterone receptor membrane component 2 Antibody detects bands near 24-28 kDa in HeLa (lane 1), HepG2 (lane 2), MCF-7 (lane 3), SK-OV-3 (lane 4), rat liver (lane 5), rat heart (lane 6), and mouse liver (lane 7). This migration is broadly consistent with the calculated PGRMC2 mass of 23.8 kDa. Reduced lysates containing 30 ug protein per lane were separated by 12% SDS-PAGE and transferred to nitrocellulose. Primary antibody was incubated at 0.5 ug/mL overnight at 4oC, followed by HRP-based chemiluminescent detection.

Description

PGRMC2 Antibody / Progesterone receptor membrane component 2 Antibody detects PGRMC2, a membrane-associated protein belonging to the membrane-associated progesterone receptor family. It contains a cytochrome b5-like heme-binding domain and is related to PGRMC1. Despite its name, PGRMC2 should not be equated with the classical nuclear progesterone receptor, which belongs to a different protein family and acts through distinct mechanisms. PGRMC2 has been associated with intracellular membrane systems and processes involving heme biology, cellular metabolism, and signaling. Its molecular functions remain less fully characterized than those of many canonical hormone receptors.

Research has implicated PGRMC2 in heme handling and the coordination of cellular processes that depend on heme-containing proteins. Heme is essential for numerous enzymes and electron-transfer proteins, but its reactive properties require careful regulation of intracellular availability. PGRMC2 has also been linked to aspects of metabolic homeostasis and the regulation of cellular responses to environmental or physiological cues. Because these observations arise from different experimental systems, individual proposed functions should be interpreted within their specific biological context rather than treated as universal activities.

PGRMC2 expression and function have been examined in reproductive tissues and in broader metabolic and cellular regulatory settings. Its relationship to PGRMC1 raises questions about shared and distinct protein interactions, localization patterns, and physiological roles. The Progesterone receptor membrane component 2 Antibody name reflects established nomenclature but does not by itself establish direct progesterone-binding activity or classical steroid-receptor signaling. NSJ Bioreagents provides the PGRMC2 Antibody for this comparatively specialized membrane-associated protein. A PGRMC2 Antibody is relevant to understanding the molecular functions and regulatory pathways associated with PGRMC2.

Explore related research targets in our Metabolism Antibody / Metabolism Antibodies collection.

Application Notes

Users should optimize the working dilution of the PGRMC2 Antibody / Progesterone receptor membrane component 2 Antibody for their specific experimental setup.

Immunogen

The PGRMC2 Antibody was generated using a synthetic peptide corresponding to a sequence at the C-terminus of human PGRMC2.

Storage

After reconstitution, the PGRMC2 Antibody may be stored at 4oC for up to one month. For longer storage, aliquot and freeze at -20oC for up to six months. Avoid repeated freezing and thawing.

Alternate Names

PGRMC2 antibody, Membrane-associated progesterone receptor component 2 antibody, progesterone receptor membrane component 2 antibody, DG6 antibody, PMBP antibody, Progesterone membrane-binding protein antibody, Steroid receptor protein DG6 antibody

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