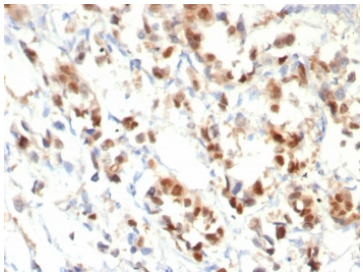
PR Breast Cancer Antibody / Progesterone Receptor Antibody [clone PGR/8099R] (V4177)

Catalog No.	Formulation	Size
V4177-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4177-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4177SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

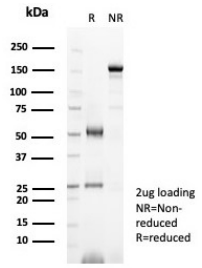
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	PGR/8099R
Purity	Protein A/G affinity
UniProt	P06401
Localization	Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This PR/Progesterone Receptor antibody is available for research use only.



PR Breast Cancer Antibody / Progesterone Receptor Antibody (clone PGR/8099R) immunohistochemistry analysis of Progesterone receptor / PGR in human breast cancer tissue. FFPE human breast carcinoma tissue was stained with the recombinant rabbit monoclonal PR Breast Cancer Antibody (clone PGR/8099R) following heat induced epitope retrieval by boiling sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes prior to cooling and staining. HRP-DAB brown chromogenic signal reveals nuclear staining in tumor epithelial cells, consistent with the known nuclear localization of Progesterone receptor (PGR). PR immunohistochemistry staining is widely used in breast cancer diagnostics to evaluate progesterone receptor expression in tumor epithelial cells and to assess hormone receptor status alongside ER and HER2 in breast carcinoma.



SDS-PAGE analysis of purified, BSA-free PR/Progesterone Receptor antibody (PGR/8099R) as confirmation of integrity and purity.

Description

Progesterone receptor (PGR) is a ligand-activated nuclear hormone receptor encoded by the PGR gene that functions as a transcription factor regulating cellular responses to progesterone signaling. PR Breast Cancer Antibody / Progesterone Receptor Antibody (clone PGR/8099R) recognizes this steroid hormone receptor, also known as Nuclear receptor subfamily 3 group C member 3 (NR3C3). Progesterone receptor is predominantly localized in the nucleus where progesterone binding activates transcriptional programs that regulate endocrine signaling, reproductive tissue biology, and hormone-dependent cellular differentiation.

PR Breast Cancer Antibody is particularly relevant in studies of hormone-responsive malignancies such as breast carcinoma where progesterone receptor expression serves as an important biomarker. PR immunohistochemistry staining is widely used in breast cancer diagnostics to evaluate progesterone receptor expression in tumor epithelial cells. Determination of PR status by immunohistochemistry is commonly performed together with estrogen receptor (ER) and HER2 testing to characterize hormone receptor status and guide therapeutic decision making in breast cancer patients.

Progesterone Receptor Antibody (clone PGR/8099R) is a recombinant rabbit monoclonal antibody designed to detect PGR protein expression in hormone-responsive tissues and tumors. In immunohistochemistry studies of breast carcinoma, progesterone receptor staining is typically observed as nuclear staining within tumor epithelial cells. This nuclear staining pattern reflects the receptor's role as a DNA-binding transcription factor that regulates progesterone-dependent gene expression in hormone-regulated tissues.

Progesterone receptor signaling plays a central role in breast tissue biology and tumor progression. Expression of PGR is frequently detected in subsets of breast carcinomas that retain hormone responsiveness. Evaluation of progesterone receptor expression is therefore an important component of breast cancer characterization, helping researchers and pathologists examine hormone signaling pathways and endocrine responsiveness of tumor cells.

PR Breast Cancer Antibody supports investigation of steroid hormone receptor biology and hormone-dependent tumor pathways. Detection of progesterone receptor expression in breast carcinoma tissues allows researchers to study endocrine signaling mechanisms, examine receptor regulation in hormone-responsive tumors, and analyze progesterone receptor expression patterns in breast cancer models and related endocrine tissues.

Application Notes

Optimal dilution of the PR Breast Cancer Antibody should be determined by the researcher.

Immunogen

A recombinant partial protein (within amino acids 1-200) from the human protein was used as the immunogen for the PR/Progesterone Receptor antibody.

Storage

Aliquot the /PRProgesterone Receptor antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

PGR antibody, NR3C3 antibody, Progesterone receptor antibody, Progesterone receptor A antibody, Progesterone receptor B antibody

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