

Rabbit Progesterone Receptor Antibody | anti-PGR antibody

Rabbit anti Progesterone Receptor antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71405	Rabbit	Human, Mouse, Rat, Bovine, Hamster	Immunohistochemistry, Western Blot, ELISA

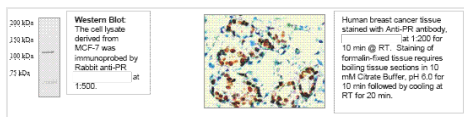
PRODUCT SYNONYMS

Progesterone Receptor; Rabbit anti Progesterone Receptor antibody; Rabbit anti-PR; anti-PGR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Hamster
Specificity	This antibody recognizes ~116 kDa of human PR protein. The other species are not tested
Purity/Purification	The Rabbit IgG is purified by Epitope Affinity Purification.
Form/Format	This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer
Concentration	Size: 100 ug/200 ul (varies by lot)
Applicable Applications for anti-PGR antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Antigen Preparation	A synthetic peptide corresponding to C-terminus of human Progesterone receptor.
Positive Control	Breast Cancer Tissue or MCF-7 cell
Cellular Location	Nuclear
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20 degree C to -70 degree C. Avoid repeated freezing-thawing cycles.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-PGR antibody	The progesterone receptor (PR) is a member of the steroid receptor superfamily. PR expression indicates a responsive estrogen receptor (ER) pathway, and therefore, may predict likely response to endocrine therapy in human breast cancer. In humans, the progesterone receptor (PR) gene gives rise to multiple isoforms. The "B" (PR-B, 116kDa, 933aa) contains a proline-rich N-term (aa 1 - 566), a central DNA-binding domain (DBD) (aa 567 - 636), a nuclear localization motif (aa 637 - 644), and a hormone binding/dimerization domain (HBD) (aa 645 - 933). PR-A (94 kDa, 769aa) utilizes a different start site that shortens the N-terminus by 164 amino acids. The N-terminus in both is rich in serine that is phosphorylated in response to hormone binding. In the absence of hormone, a few PR-A and -B molecules are phosphorylated at Serine 190 (S190). Hormone increases this number two-fold, providing evidence for hormone stimulation. The common Serine at 294 can only be phosphorylated on PR-B, due to a difference in N-terminal conformation. This may account for functional differences between the molecules. Alternate start sites also generate two shorter forms that lack the N-terminus: PR-C (60 kDa, 339 aa), PR-M (38 kDa, 314aa). PR-A, -B and -C are known to heterodimerize. Alternate splicing of PR-A generates at least four other isoforms. All contain aa 1 - 516 (with the N-terminus), and are either truncated or show a partial deletion of the HBD.
References	Zheng ZY, Lin VC. Anti-estrogenic effect of unliganded progesterone receptor is estrogen-selective in breast cancer cells MCF-7. Cancer Lett. 2008 May 12 (in press)

NCBI AND UNIPROT INFORMATION

NCBI GI #	189935
NCBI GeneID	5241
UniProt Accession #	P06401; Q9UPF7; A7X8B0; Q6TZ07; Q6TZ08; Q8NG42; Q8NG43; Q8NG44; Q8NG45; Q8TDS3
Molecular Weight	116 kDa
NCBI Official Full Name	progesterone receptor
NCBI Official Synonym Full Names	progesterone receptor
NCBI Official Symbol	PGR
NCBI Official Synonym Symbols	PR; NR3C3
NCBI Protein Information	progesterone receptor; OTTHUMP00000236114; OTTHUMP00000236115; OTTHUMP00000236117; OTTHUMP00000236119; nuclear receptor subfamily 3 group C member 3
UniProt Protein Name	Progesterone receptor
UniProt Gene Name	PGR
UniProt Synonym Gene Names	NR3C3
UniProt Entry Name	PRGR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/rabbit-bovine-hamster-human-mouse-ovine-rat-antibody/progesterone-receptor/71405>