Rabbit Anti-Human
Progesterone Receptor
Code No. A 0098
Lot 126

**Presentation**
DAKO Rabbit Anti-Human Progesterone Receptor is the purified immunoglobulin fraction of rabbit antiserum.

**Solvent:** 0.1 M NaCl, 15 mM NaN₃.

**Protein concentration:** 1.3 g/L.

**Storage**
2 - 8 °C.

**Immunogen**
Synthetic peptide from the DNA-binding domain (amino acids 533-547) of human progesterone receptor. Carrier protein, ovalbumin.

**Specificity/reactivity**
The antibody reacts with the DNA-binding domain (B region) of human progesterone receptor. The antibody has a reactivity similar to a monoclonal antibody, clone PR AT 4.14 reacting with the same part of the progesterone receptor (1).

Antibodies to the carrier protein have been removed by solid-phase absorption with ovalbumin.

*Normal tissues:* The antibody strongly labels cells known to contain abundant amounts of progesterone receptor, e.g. normal and hyperplastic epithelial cells in mammary glands and epithelial and myometrial cells of the uterus. In formalin-fixed tissue, the staining is predominantly localized to the nuclei with no or insignificant cytoplasmic staining. On frozen sections, a positive staining of the nuclei as well as of the cytoplasm can be seen. Tissues known to contain small or no detectable amounts of progesterone receptor, e.g. colonic epithelium, cardiac muscle, brain and connective tissue are consistently negative with the antibody. A faint staining of smooth muscle cells, of the cytoplasm of few cells in Langerhans’ islets of pancreas, and of the luminal part of a fraction of cells in kidney tubules has been observed.

*Tumour cells:* The antibody labels epithelial cells of breast carcinomas known to express progesterone receptor. In immunohistochemistry, a good correlation has been found between the labelling obtained with the DAKO Rabbit Anti-Human Progesterone Receptor and other antibodies to progesterone receptor, such as clone PgR-ICA, 1A6 and PR AT 4.14.

**Staining procedures**
**Formalin-fixed and paraffin-embedded sections**
Can be used on formalin-fixed, paraffin-embedded tissue sections. To improve the staining pattern, physical methods for antigen retrieval, such as boiling in 10 mM citrate buffer, pH 6.0 or in DAKO Target Retrieval Solution, code No. S 1700 can be used. The slides should not dry out during this treatment or during the following immunohistochemical staining procedure.

A number of sensitive visualization systems are suitable, such as the DAKO Duet streptABComplex/HRP Kit, code No. K 0492, and other avidin-biotin-based systems.

The antibody gives an optimal staining at a dilution of 1:25 - 1:50 when tested on human breast carcinoma using the DAKO Duet streptABComplex/HRP Kit.

**Frozen sections and cell smears**
Can be used for labelling acetone-fixed, frozen sections and fixed cell smears. A number of sensitive visualization systems are suitable, such as LSAB methods.
Note
Dilution of the antibody in 0.05 M Tris/HCL buffer containing 0.4 M NaCl and 1% bovine serum albumine, pH 7.4, is recommended for optimal staining results.

References
(1) Traish AM, Wotiz HH. Monoclonal and polyclonal antibodies to human progesterone receptor peptide-(533-547) recognize a specific site in unactivated (8S) and activated (4S) progesterone receptor and distinguish between intact and proteolyzed receptors. Endocrinology 1990;127:1167-75.

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