

## Progesterone Receptor (PR) (SP2)

Format	Catalog no.	Pack size	Dilution
Concentrated	GB302A,C	0.1, 1.0 mL	1:100
Prediluted	GB301AA	6.0 mL	RTU

### PRODUCT DESCRIPTION -

Breast cancers that express the progesterone receptor (PR) are more likely to respond to anti-estrogen (tamoxifen) treatment. The rabbit monoclonal antibody with a high affinity is the Progesterone Receptor [SP2] antibody clone. According to a study, the SP2 clone's affinity for the progesterone receptor was significantly higher than that of mouse monoclonals. Research has also demonstrated that the SP2 clone supports ER's ability to predict survival in cases of human breast cancer.

### INTENDED USE -

Analyte Specific Reagent. Analytical and performance characteristics are not established.

### SUMMARY AND EXPLANATION -

It has been demonstrated that the Progesterone Receptor (PR) clone SP2 functions in paraffin-embedded, formalin-fixed tissues. A rabbit monoclonal with high affinity is the SP2 clone. According to one investigation, the SP2 clone had a significantly greater affinity for the progesterone receptor than mouse monoclonals.

### PRINCIPLE OF PROCEDURE -

Antigen detection in tissues and cells is a multi-step immunohistochemistry procedure. The first step attaches the primary antibody to its designated epitope. Following the tagging of the antigen with a primary antibody, a secondary antibody is introduced to attach to the primary antibody. An enzyme label is subsequently introduced to attach to the secondary antibody; the detection of the attached antibody is demonstrated using a colorimetric reaction.

SOURCE - Rabbit polyclonal

SPECIES REACTIVITY - Human

CLONE- SP1

ISOTYPE - IgG

PROTEIN CONCENTRATION - Call for lot specific Ig concentration.

EPITOPE/ANTIGEN- PR

CELLULAR LOCALISATION - Nuclear

POSITIVE TISSUE CONTROL - Breast carcinoma

KNOWN APPLICATIONS - Immunohistochemistry

30-40 min. At RT. Staining of formalin-fixed tissues requires heating tissue sections in between pH 7.4 - 9.0 for 45 min at 95°C followed by cooling at room temperature for 20 minutes.

SUPPLIED AS - Buffer with protein carrier and preservative

STORAGE AND STABILITY -

Store at 2°C to 8°C. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

Materials required but not provided -

- 1) Positivetissuecontrol- Breastcarcinoma
- 2) Negativecontroltissue(internalorexternal)
- 3) Microscopeslidesandcoverslips
- 4) Stainingjarsorbaths
- 5) Timer
- 6) Xyleneorxylenesubstitute
- 7) Ethanolorreagentalcohol
- 8) Deionizedordistilledwater
- 9) Heatingequipmentorenzymefortissuepretreatmentstep
- 10)Detection system
- 11)Chromogen
- 12)Wash buffer
- 13) Hematoxylin
- 14)Antibody diluents
- 15)Peroxide block
- 16)Light microscope
- 17)Mounting medium

LIMITATIONS-

The optimum antibody dilution and protocols for a specific application can vary. These include, but are not limited to fixation, heat-retrieval method, incubation times, tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titers listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of Genebio products. Ultimately, it is the responsibility of the investigator to determine optimal conditions.