Estrogen Receptor (Clone SP1)

Rabbit Monoclonal Antibody

**Cat. #RM-9101-S0, -S1, or -S (0.1ml, 0.5ml, or 1.0ml Supernatant)**

**Cat. #RM-9101-R7 (7.0ml)** (Ready-to-Use for Immunohistochemistry)

**Cat. #RM-9101-RQ (12.0ml)** (Ready-to-Use for Immunohistochemistry)

**Cat. #RM-9101-F0, or -F (0.1ml, 0.5ml, or 1.0ml)** (FITC-Conjugated Antibody)

Please note this data sheet has been changed effective November 17, 2016

**Description:** Clone SP1 recognizes a protein of 67kDa, which is identified as estrogen receptor (ER) alpha. The ER gene consists of more than 140kb of genomic DNA divided into 8 exons, being translated into a protein with six functionally discrete domains, labeled A through F. This antibody strongly stains the nucleus of epithelial cells in breast carcinomas. The ER is an important regulator of growth and differentiation in the mammary gland. Presence of ER in breast tumors indicates an increased likelihood of response to anti-estrogen (e.g. tamoxifen) therapy.

**Comments:** Clone SP1 is excellent for staining of formalin/paraffin with no special pretreatment.

**Mol. Wt. Of Antigen:** 67kDa

**Epitope:** C-terminal

**Ig Isotype:** Rabbit IgG

**Species Reactivity:** Human. Others not tested.

**Clone Designation:** SP1

**Immunogen:** Synthetic peptide derived from C-terminal of human estrogen receptor.

**Applications and Suggested Dilutions:**

- Immunofluorescence (not verified)
- Flow Cytometry (not verified)
- Western Blotting (1:200-1:1000)
- Immunohistology (Formalin/paraffin)

**Use Ab 1:100 - 1:400 for 30 min using UltraVision LP Detection System**

* Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, (Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

**Use Ab 1:400 for 20 min at RT using UltraVision Quanto Detection Systems**

* [Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Breast carcinomas, MCF-7

**Cellular Localization:** Nuclear

**Supplied As:**

- Tissue culture supernatant with 15mM sodium azide.
- Prediluted antibody which is ready-to-use for immunohistochemistry.

**Storage and Stability:**

Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months. FITC-conjugated antibody is stable for 24 months when stored at below 0°C.

**Formalin-fixed, paraffin-embedded human breast carcinoma stained with Estrogen Receptor (Cat.#RM-9101-S) using peroxidase-conjugate and AEC. Note nuclear staining of tumor cells**

**References:**


**Limitations and Warranty:**

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

**Material Safety Data:**

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This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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