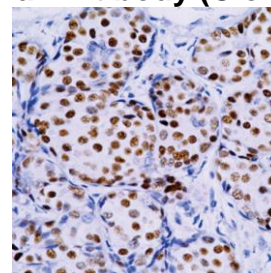




## Rabbit Anti-Human Estrogen Receptor (ER) Monoclonal Antibody (Clone SP1)

### CATALOG #:

- M3010** 0.1ml rabbit monoclonal antibody supplied as tissue culture supernatant in TBS/1% BSA buffer pH 7.5 with less than 0.1% sodium azide.
- M3012** 0.5 ml rabbit monoclonal antibody in PBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide.
- M3014** 1.0 ml rabbit monoclonal antibody supplied as tissue culture supernatant in TBS/1% BSA buffer pH 7.5 with less than 0.1% sodium azide.
- M3011** 7.0 ml pre-diluted rabbit monoclonal antibody supplied as tissue culture supernatant in TBS/1% BSA buffer pH 7.6 with less than 0.1% sodium azide. (For IHC only).



Human breast carcinoma stained with anti-ER antibody



Western Blot analysis of MCF7 cell lysate with ER antibody

### INTENDED USE:

For Research Use Only. Not for use in diagnostic procedures.

### CLONE:

SP1

### IMMUNOGEN:

Synthetic peptide derived from C-terminus of human estrogen receptor alpha.

### IG ISOTYPE:

Rabbit IgG

### EPITOPE:

Not determined

### MOLECULAR WEIGHT

67kDa

### SPECIES REACTIVITY:

Human (tested). (See [www.springbio.com](http://www.springbio.com) for information on species reactivity predicted by sequence homology.)

### DESCRIPTION:

This antibody recognizes a protein of 67kDa, which is identified as estrogen receptor (ER). 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.

### APPLICATIONS:

Immunohistochemistry (IHC) and Western Blotting

### IHC PROCEDURE:

**Specimen Preparation:** Formalin-fixed, paraffin-embedded tissues are suitable for use with this primary antibody.

**Deparaffinization:** Deparaffinize slides using xylene or xylene alternative and graded alcohols.

**Antibody Dilution:** If using the concentrate format of this product, dilute the antibody 1:200. The dilutions are estimates; actual results may differ because of variability in methods and protocols.

**Antigen Retrieval:** Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min.

**Primary Antibody Incubation:** Incubate for 30 minutes at room temperature.

**Slide Washing:** Slides must be washed in between steps. Rinse slides with PBS/0.05% Tween.

**Visualization:** Detect the antibody as instructed by the instructions provided with the visualization system.

### IHC POSITIVE CONTROL:

Breast carcinoma

### WESTERN BLOTTING:

Recommended starting protocol: Dilute the antibody 1:25. Incubate for 1 hour at room temperature.

The dilution is an estimate; actual results may differ because of variability in methods and protocols. Optimal dilution and procedure should be determined by the end user.

### WESTERN BLOTTING

### POSITIVE CONTROL:

MCF7 cell lysate

### CELLULAR LOCALIZATION:

Nucleus

**STORAGE & STABILITY**

Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

There are no definitive signs to indicate instability of this product; therefore, positive and negative controls should be tested simultaneously with unknown specimens.

If unexpected results are observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact Technical Support at [spring.tech@ventana.roche.com](mailto:spring.tech@ventana.roche.com).

**WARNINGS &  
PRECAUTIONS:**

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.