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## **Estrogen Receptor Ab-17**

### **Rabbit Polyclonal Antibody**

**Cat. #DLN-12415, DLN-12416, or DLN-12414 (0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml)** (Purified Ab with BSA and Azide)

**Cat. #DLN-12417 or DLN-12418 (0.5ml or 1.0ml at 1.0mg/ml)** (Purified Ab without BSA and Azide)

**Description:** ER gene consists of more than 140kb of genomic DNA divided into 8 exons, being translated into a protein with six functionally discrete domains required for transcription activation function, binding to estrogen response element (ERE) constitutive dimerization, binding to heat shock proteins, and ligand recognition. 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.

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

**Epitope:** N-terminal

**Species Reactivity:** Human, Rat, Mouse, Rabbit, Sheep, Pig, and Cow. Others-not known.

**Immunogen:** A synthetic peptide from the N-terminus of human estrogen receptor, alpha protein.

### **Applications and Suggested Dilutions:**

- Immunoprecipitation (Denatured verified)  
(Use Protein A) (Ab 10µg/mg protein lysate)
- Western Blotting (2.5-5µg/ml for 2hrs at RT)
- Immunohistology (formalin/paraffin)  
(Use Ab at 10-20µg/ml for 30 min at RT) (dianovas Ab-16 (Cat.# 12374) is better)
- \* (Staining of formalin/paraffin 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:** MCF-7 cells. Breast carcinoma

**Cellular Localization:** Nuclear

**Supplied As:** Total IgG purified from rabbit anti-serum by Protein A chromatography. Prepared at 1mg/ml in 10mM PBS, pH 7.4, with 0.2% BSA & 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

### **Storage and Stability:**

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

### **Suggested References:**

1. Al Saati, et al. (1993) Int J Cancer, 55:651-654.
2. Abbondanza C *et. al.* Steroids, 1993, 58:4-12.

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**dianova GmbH**

Warburgstr. 45 • 20354 Hamburg

Telefon (040)45067-0 • Telefax (040) 45067-490 • [www.dianova.de](http://www.dianova.de)



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#### ***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. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

#### ***Material Safety Data:***

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.

***For Research Use Only***

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