

Estrogen Receptor Ab-10 (Clone TE111.5D11)

Mouse Monoclonal Antibody

Cat. #MS-315-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-315-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Cat. #MS-315-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-Labeled Ab with BSA and Azide)

Cat. #MS-315-PCL (0.1ml) (Positive Control for Western Blot)

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: aa 302-553

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

Clone Designation: TE111.5D11

Ig Isotype: IgG₁

Immunogen: 35kDa, C-terminal fragment (aa 302-595) of human ER expressed in *E. coli*

Applications and Suggested Dilutions:

- Gel Supershift (Order Ab at 1mg/ml)
- Immunoprecipitation(Native and denatured) (Use Protein G)(Ab 2µg/mg protein lysate)
- Western Blotting (Ab-15/-16 is better) (Ab 1-2µg/ml for 2hrs at RT)
- Blocks binding of estrogen to ER
- Chromatin Precipitation

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

Positive Control: T47D cells.

Cellular Localization: Nuclear

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.

Supplied As:

200µg/ml Ab purified from a bioreactor concentrate by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA & 0.09% sodium azide, Also available without BSA and azide at 1mg/ml.

Suggested References:

1. Abbondanza C *et. al.* Steroids, 1993, 58:4-12.

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. NeoMarkers 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.

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