

Anti-ER alpha Antibody (7N404)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7N404
Purification:	Protein A

Applications

Verified Activity:	Anti-ER alpha/ESR1 rabbit monoclonal antibody at 1:500 dilution. -Lane A: MCF7 Whole Cell Lysate. -Lane B: HeLa Whole Cell Lysate. -Lane C: Molt4 Whole Cell Lysate. -Lane D: Raji Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:66 kDa. -Observed band size:79 kDa
Application:	WB
Recommended	WB: 1:500-1:2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: center region of the Human ER alpha/ESR1
Antigen Species:	Human
Synonyms:	ER;ER-Alpha;Estradiol Receptor;ER-α;ER alpha;estrogen receptor alpha;Nuclear Receptor Subfamily 3 Group A Member 1;estrogen receptor α;NR3A1;ER α;ESR;ESR1;Estrogen Receptor

Research Background

An ESR1 gene mutation, which encodes for the estrogen receptor (ER) protein, is one of the potential mechanisms of therapy resistance. The ESR1 mutations result in conformational changes in the ER leading to subsequent estrogen-independent transcriptional activity. The mutations within the estrogen receptor (ER) gene, ESR1, frequently occur in metastatic breast cancer and influence response to hormone therapy. Estrogen receptor alpha (ERalpha) is one of the estrogen hormone-activated transcription factors, which regulates a large number of genes and is involved in the mammary gland development. Expression of ERalpha is considered to be a good indicator for endocrine therapy and breast cancer survival. Loss of ERalpha in breast cancer patients indicates invasiveness and poor prognosis.

A DRUG SCREENING EXPERT

ESR1 as a direct target of miR-301a-3p and suggest that miR-301a-3p likely contributes to development of estrogen independence, which leads to a more invasive phenotype of breast cancer. Polymorphisms of the estrogen receptor gene alpha (ESR1) are consistently been associated with bone mineral density (BMD) and fracture.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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