

## Anti-ER alpha Polyclonal Antibody 2

## Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Chicken,Pig,Sheep)
Molecular Weight:	Theoretical: 66 kDa.
Purification:	Protein A purified

## Applications

1. MCF7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (Estrogen Receptor alpha) polyclonal Antibody, Unconjugated (TMAB-00631) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

2. Blank control (blue line): MCF7 (blue).

Primary Antibody (green line): Rabbit Anti-Estrogen Receptor alpha antibody (TMAB-00631)

Dilution: 1 µg/10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC

Dilution: 1 µg/test.

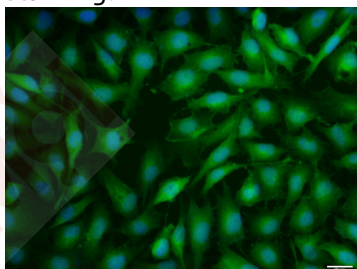
Protocol

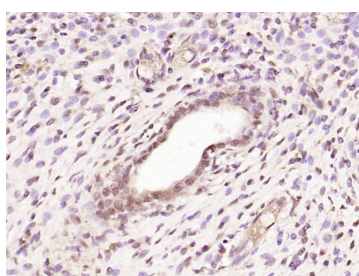
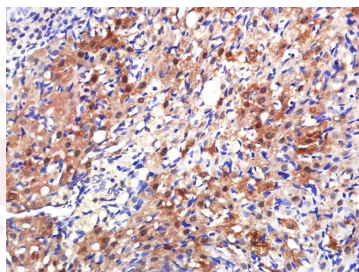
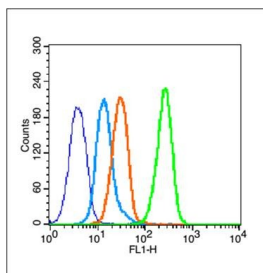
The cells were fixed with 80% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2% BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature.

3. Paraformaldehyde-fixed, paraffin embedded (Rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Estrogen Receptor alpha) Polyclonal Antibody, Unconjugated (TMAB-00631) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 min and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (rat uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Estrogen Receptor alpha) Polyclonal Antibody, Unconjugated (TMAB-00631) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Verified Activity:





Application: FCM, ICC/IF, IF, IHC-Fr, IHC-P

Recommended FCM=1 µg/Test; ICC/IF=1:50-200; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Estradiol receptor Alpha

Antigen Species: Human

Gene ID: 2099

Uniprot ID: P03372

Synonyms: ER α; Nuclear Receptor Subfamily 3 Group A Member 1; estrogen receptor α; ER; ER alpha; estrogen receptor alpha; Estrogen Receptor; ESR; ER-Alpha; Estradiol Receptor; ESR1; ER-α; NR3A1

Biology Area: Estrogen,ChIP antibodies,Estrogen,Gonadotrophic axis,Estrogen

### Research Background

Estrogen and progesterone receptor are members of a family of transcription factors that are regulated by the binding of their cognate ligands. The interaction of hormone-bound estrogen receptors with estrogen responsive elements (EREs) alters transcription of ERE-containing genes. The carboxy terminal region of the estrogen receptor contains the ligand binding domain, the amino terminus serves as the transactivation domain, and the DNA binding domain is centrally located. Two forms of estrogen receptor have been identified, ER Alpha and ER Beta. ER Alpha and ER Beta have been shown to be differentially activated by various ligands. The biological response to progesterone is mediated by two distinct forms of the human progesterone receptor (hPR-A and hPR-B), which arise from alternative splicing. In most cells, hPR-B functions as a transcriptional activator of progesterone-responsive

gene, whereas hPR-A function as a transcriptional inhibitor of all steroid hormone receptors.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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