

ESR α Rabbit mAb

Catalog No.: A24421 **Recombinant** **1 Publications**

Basic Information

Observed MW

66kDa

Calculated MW

66kDa

Category

Primary antibody

Applications

WB,IP,ELISA,ChIP,FC (intra)

Cross-Reactivity

Human

CloneNo number

ARC61898

Background

This gene encodes an estrogen receptor and ligand-activated transcription factor. The canonical protein contains an N-terminal ligand-independent transactivation domain, a central DNA binding domain, a hinge domain, and a C-terminal ligand-dependent transactivation domain. The protein localizes to the nucleus where it may form either a homodimer or a heterodimer with estrogen receptor 2. The protein encoded by this gene regulates the transcription of many estrogen-inducible genes that play a role in growth, metabolism, sexual development, gestation, and other reproductive functions and is expressed in many non-reproductive tissues. The receptor encoded by this gene plays a key role in breast cancer, endometrial cancer, and osteoporosis. This gene is reported to have dozens of transcript variants due to the use of alternate promoters and alternative splicing, however, the full-length nature of many of these variants remain uncertain.

Recommended Dilutions

WB 1:1000 - 1:6000

IP 0.5 μ g-4 μ g antibody for
400 μ g-600 μ g extracts of
whole cells

ELISA Recommended starting
concentration is 1 μ g/mL.
Please optimize the
concentration based on
your specific assay
requirements.

ChIP 5 μ g antibody for
10 μ g-15 μ g of Chromatin.

FC (intra) 1:500 - 1:1000

Contact

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Immunogen Information

Gene ID

2099

Swiss Prot

P03372

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

ER; ESR α

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

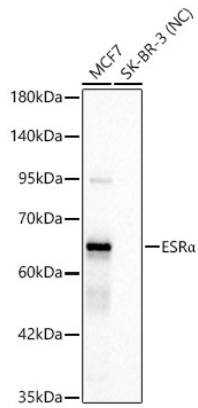
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

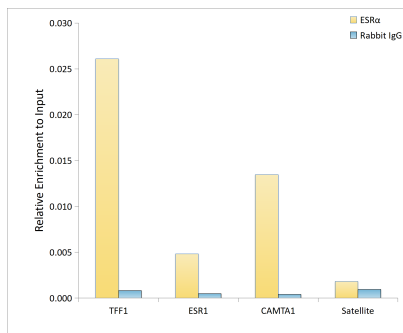


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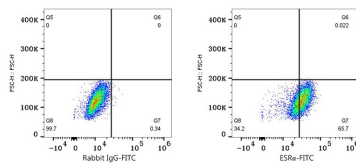
Validation Data



Western blot analysis of various lysates, using ESR α Rabbit mAb (A24421) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): SK-BR-3. Exposure time: 3s.



Chromatin immunoprecipitation analysis of extracts of MCF7 cells treated by β -estradiol (10 nM, 45 minutes), using ESR α Rabbit mAb(A24421) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Flow cytometry: 1×10^6 MCF7 cells were intracellularly-stained with Rabbit IgG isotype control (AC042, 2 μ g/mL, left) or ESR α Rabbit mAb (A24421, 2 μ g/mL, right), followed by FITC conjugated goat anti-rabbit pAb staining.