
Anti-Estrogen Receptor α

Cat #: HM1137
Mouse monoclonal IgG
0.2 $\mu\text{g}/\mu\text{l}$, store at 4 °C

For research use only

BACKGROUND

Estrogen receptors, including ER α and ER β are members of the steroid/thyroid hormone receptor superfamily of ligand-activated transcription factors. They are critically involved in regulating the normal function of reproductive tissues. Estrogen receptors contain several domains important for hormone binding, DNA binding, and activation of transcription. Receptor-ligand interactions trigger a cascade of events, including dissociation from heat shock proteins, receptor dimerization, phosphorylation and the association of the hormone activated receptor with specific regulatory elements in target genes. ER α and ER β have been shown to be differentially activated by various ligands.

SPECIFICITY

This antibody reacts with human estrogen receptor α by Western Blotting, immunoprecipitation and immunohistochemistry (including paraffin-embedded sections).

Molecular Weight of ER α : 66 kDa.

IMMUNOGEN

Recombinant protein of C-terminus of human estrogen receptor α

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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2. Evans, R.M. 1988. The steroid and thyroid hormone receptor superfamily. Science 240: 889-895.
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4. Arnold, S.F., et al. 1995. Phosphorylation of the human estrogen receptor on tyrosine 537 in vivo and by src family tyrosine kinases in vitro. Mol. Endocrinol. 9: 24-33.
5. Mosselman, S., et al. 1996. ER β : identification and characterization of a novel human estrogen receptor. FEBS Letts. 392: 49-53.

6. Byers, M., et al. 1997. Estrogen receptor- β mRNA expression in rat ovary: down-regulation by gonadotropins. Mol. Endocrinol. 11: 172-182.
7. Morelli,C., Garofalo,C., Bartucci,M. and Surmacz,E. (2003) Estrogen receptor-alpha regulates the degradation of insulin receptor substrates 1 and 2 in breast cancer cells. Oncogene 22, 4007-4016.
8. Beischlag,T.V. and Perdew,G.H. (2005) ER alpha-AHR-ARNT protein-protein interactions mediate estradiol-dependent transrepression of dioxin-inducible gene transcription. J. Biol. Chem. 280, 21607-21611.

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