

## Anti-Esr1(Estrogen receptor) Polyclonal Antibody

Cat. #: 60B831

### Description:

Esr1(Estrogen receptor) is a nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Esr1 can form a heterodimer with ESR2 and interacts with NCOA3 and NCOA6 coactivators, leading to a strong increase of transcription of target genes. It also interacts with NCOA5 and binds UBE1C. Esr1 is composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal steroid-binding domain. In the absence of ligand, steroid hormone receptors are thought to be weakly associated with nuclear components, the hormone binding greatly increases receptor affinity. The hormone-receptor complex appears to recognize discrete DNA sequences upstream of transcriptional start sites.

### Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of mouse Esr1(Estrogen receptor)

### References

White,R., et al, Mol. Endocrinol. 1 (10), 735-744 (1987)  
Kos,M., et al, FEBS Lett. 477 (1-2), 15-20 (2000)  
Jiang,M.S. and Hart,G.W., J. Biol. Chem. 272 (4), 2421-2428 (1997)  
Cheng,X. and Hart,G.W., J. Steroid Biochem. Mol. Biol. 75 (2-3), 147-158 (2000)  
Torchia,J., et al, Nature 387 (6634), 677-684 (1997)  
Zhu,Y., et al, J. Biol. Chem. 275 (18), 13510-13516 (2000)

Species: mouse, rat

Storage and Stability: at -20oC

### Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

### Preparation:

Purified by antigen-specific affinity chromatography.

### Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)