Monoclonal Antibody Catalog #: AMRe05896



Summary

Phospho-ER alpha (S118) (6G16) Rabbit Monoclonal Antibody **Production Name**

Rabbit Monoclonal Antibody Description

Host Rabbit **Application** WB.ELISA Reactivity Human

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type
Buffer	preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.
	Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name ESR1

ESR1; Era; Eralpha; Estrogen receptor; Estradiol receptor; ER-alpha; Estrogen receptor 1; **Alternative Names**

NR3A1; ER; ESR; ESRA; Estrogen receptor alpha;

Gene ID 2099.0 SwissProt ID P03372.

Application

Dilution Ratio WB 1:500-1:2000

Molecular Weight 66kDa

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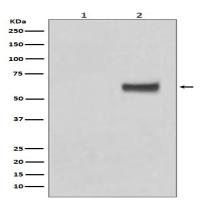


Background

Estrogen receptor α (ER α), a member of the steroid receptor superfamily, contains highly conserved DNA binding (DBD) and ligand binding domains (LBD). Through its estrogen-independent and estrogen-dependent activation domains (AF-1 and AF-2, respectively), ERα regulates transcription by recruiting coactivator proteins and interacting with general transcriptional machinery. Phosphorylation provides an important mechanism to regulate ER α activity. ER α is phosphorylated on multiple sites. 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. Liganddependent nuclear transactivation involves either direct homodimer binding to a palindromic estrogen response element (ERE) sequence or association with other DNA-binding transcription factors, such as AP-1/c-Jun, c-Fos, ATF-2, Sp1 and Sp3, to mediate ERE- independent signaling. Ligand binding induces a conformational change allowing subsequent or combinatorial association with multiprotein coactivator complexes through LXXLL motifs of their respective components. Mutual transrepression occurs between the estrogen receptor (ER) and NF-kappa-B in a cell-type specific manner. Decreases NF-kappa- B DNA-binding activity and inhibits NF-kappa-B-mediated transcription from the IL6 promoter and displace RELA/p65 and associated coregulators from the promoter. Recruited to the NF-kappa-B response element of the CCL2 and IL8 promoters and can displace CREBBP. Present with NF-kappa-B components RELA/p65 and NFKB1/p50 on ERE sequences. Can also act synergistically with NF-kappa-B to activate transcription involving respective recruitment adjacent response elements; the function involves CREBBP. Can activate the transcriptional activity of TFF1. Also mediates membrane-initiated estrogen signaling involving various kinase cascades. Essential for MTA1-mediated transcriptional regulation of BRCA1 and BCAS3 (PubMed: 17922032).

Research Area

Image Data



Western blot analysis of Phospho-ER alpha (S118) expression in (1) MCF7 cell lysate; (2) MCF7 cell lysate treated with b-

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Estradiol and EGF.

Note

For research use only.

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