



# Rabbit Anti-Human Estrogen monoclonal antibody, clone TD16-98 (CABT-BL8472)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	Phospho-Estrogen Receptor alpha(S118)
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	TD16-98
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC/IF, IHC
<b>Molecular Weight</b>	66 kDa
<b>Cellular Localization</b>	Nucleus, Cytoplasm, Cell membrane.
<b>Positive Control</b>	HUVEC, MCF-7, HeLa, human breast carcinoma tissue, mouse placenta tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

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<b>Storage</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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## BACKGROUND

<b>Introduction</b>	Estrogen receptor alpha (ER $\alpha$ , ER, ESR, ESRA, Era, NR3A1, estrogen receptor 1) is a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding and activation of transcription. Alternative splicing results in several ER $\alpha$ mRNA transcripts, which differ primarily in their 5' untranslated regions. ER $\alpha$ undergoes phosphorylation in response to estradiol binding. Human ER $\alpha$ is predominately phosphorylated on Ser 118 and to a lesser extent on Ser 104 and Ser 106. In response to activation of the mitogen-activated protein kinase pathway, phosphorylation occurs on Ser 118 and Ser 167. These serine residues are all located within the activation function 1 region of the N-terminal domain of ER $\alpha$ . In contrast, activation of protein kinase A increases the phosphorylation of Ser 236, which is located in the DNA-binding domain. Src kinase-dependent Tyr 537 phosphorylation may enhance estrogen binding to ER $\alpha$ . Mutation of Tyr 537 of the human ER $\alpha$ produces receptors having a range of constitutive activity.
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<b>Keywords</b>	DKFZp686N23123;ER alpha;ER;ER-alpha;Era;ESR;ESR1;ESR1_HUMAN;ESRA;Estradiol receptor;Estrogen nuclear receptor alpha;Estrogen receptor 1;Estrogen receptor alpha 3*,4,5,6,7*/822 isoform;Estrogen receptor alpha;Estrogen receptor alpha delta 3*,4,5,6,7*,8*/941 isoform;Estrogen receptor alpha delta 3*,4,5,6,7*/819 2 isoform;Estrogen receptor alpha delta 4 +49 isoform;Estrogen receptor alpha delta 4*,5,6,7*/654 isoform;Estrogen receptor alpha delta 4*,5,6,7,8*/901 isoform;Estrogen receptor alpha E1 E2 1 2;Estrogen receptor alpha E1 N2 E2 1 2;Estrogen receptor;ESTRR;NR3A1;Nuclear receptor subfamily 3 group A member 1 antibody
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