



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

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

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

Estrogen receptor alpha (ERα, 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 ERα mRNA transcripts, which differ primarily in their 5' untranslated regions. ERα undergoes phosphorylation in response to estradiol binding. Human ERα 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 ERα. 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 ERα. Mutation of Tyr 537 of the human ERα produces receptors having a range of constitutive activity.

Keywords

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
