

Datasheet for ABIN6254948

anti-Estrogen Receptor alpha antibody (pSer118)

3 Images



Overview

Quantity:	100 μL
Target:	Estrogen Receptor alpha (ESR1)
Binding Specificity:	pSer118
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Estrogen Receptor alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Product Details Immunogen:	A synthesized peptide derived from human Estrogen Receptor- alpha around the
	A synthesized peptide derived from human Estrogen Receptor- alpha around the phosphorylation site of Ser118.
Immunogen:	phosphorylation site of Ser118.
Immunogen: Isotype:	phosphorylation site of Ser118.
Immunogen: Isotype:	phosphorylation site of Ser118. IgG Phospho-Estrogen Receptor alpha (Ser118) Antibody detects endogenous levels of Estrogen
Immunogen: Isotype: Specificity:	phosphorylation site of Ser118. IgG Phospho-Estrogen Receptor alpha (Ser118) Antibody detects endogenous levels of Estrogen Receptor alpha only when phosphorylated at Serine 118.

Target Details

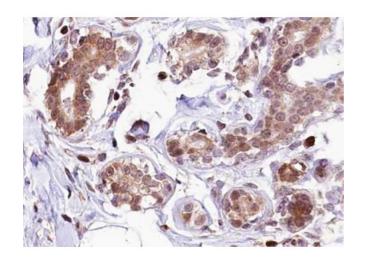
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Target:	Estrogen Receptor alpha (ESR1)
Alternative Name:	ESR1 (ESR1 Products)
Background:	Description: Nuclear hormone receptor. The steroid hormones and their receptors are involved
	in the regulation of eukaryotic gene expression and affect cellular proliferation and
	differentiation in target tissues. Ligand-dependent 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. Isoform 3 is involved in activation of NOS3 and endothelial nitric oxide production.
	Isoforms lacking one or several functional domains are thought to modulate transcriptional
	activity by competitive ligand or DNA binding and/or heterodimerization with the full-length
	receptor. Essential for MTA1-mediated transcriptional regulation of BRCA1 and BCAS3. Isoform
	3 can bind to ERE and inhibit isoform 1.
	Gene: ESR1
Molecular Weight:	66kDa
Gene ID:	2099
UniProt:	P03372
Pathways:	Nuclear Receptor Transcription Pathway, EGFR Signaling Pathway, Retinoic Acid Receptor
	Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Steroid
	Hormone Mediated Signaling Pathway, Ribonucleoprotein Complex Subunit Organization,

Ribosome Assembly

Application Details

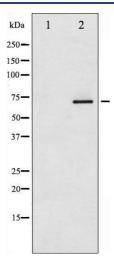
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



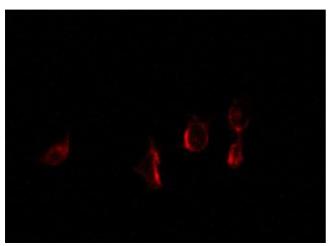
Immunohistochemistry

Image 1. ABIN6267278 at 1/100 staining human Breast carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blotting

Image 2. Western blot analysis of Estrogen Receptor alpha phosphorylation expression in Estradiol treated MCF7 whole cell lysates, The lane on the left is treated with the antigenspecific peptide.



Immunofluorescence (fixed cells)

Image 3. ABIN6267278 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.