

Datasheet for ABIN684568

anti-Estrogen Receptor alpha antibody (pSer118)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	Estrogen Receptor alpha (ESR1)
Binding Specificity:	pSer118
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Estrogen Receptor alpha antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human ER alpha around the phosphorylation site of Ser118
Isotype:	IgG
Specificity:	This will detect Isoform 1 & 2. This phosphorylation site is homologous to the Ser122 in Mouse and Ser123 in Rat.
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	Estrogen Receptor alpha (ESR1)
Alternative Name:	Estrogen Receptor alpha (ESR1 Products)
Background:	<p>Synonyms: ER, ESR, Era, ESRA, ESTRR, NR3A1, Estrogen receptor, ER-alpha, Estradiol receptor, Nuclear receptor subfamily 3 group A member 1, ESR1</p> <p>Background: 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.</p>
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

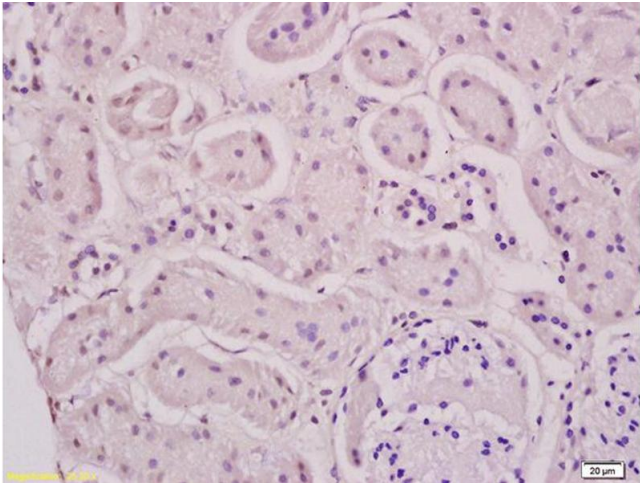
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only
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Handling

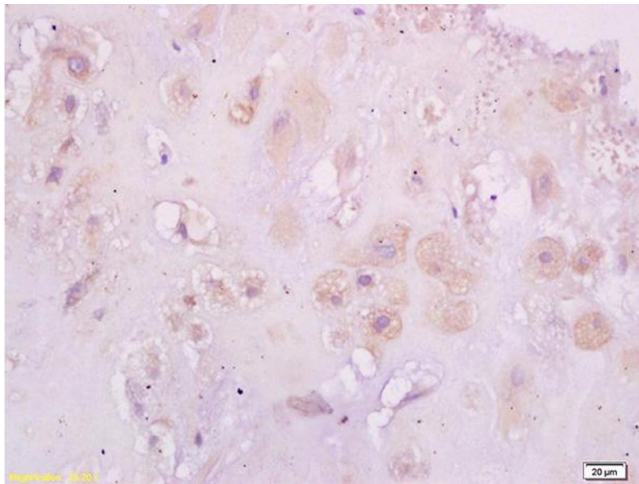
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



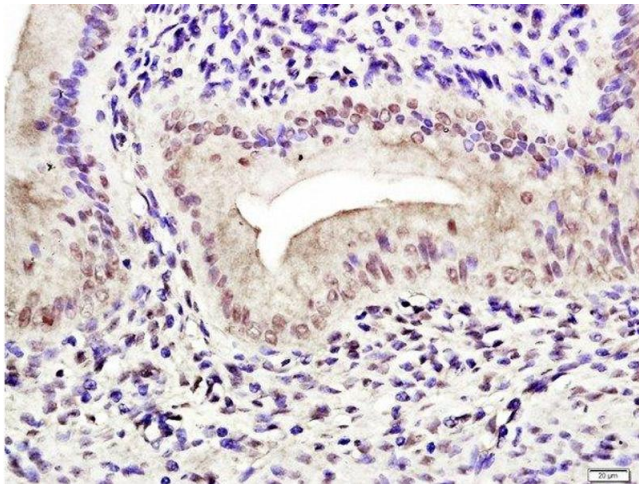
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat kidney tissue labeled with Anti-Phospho-Estrogen Receptor alpha (Ser118) Polyclonal Antibody, Unconjugated (ABIN684568) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human placenta tissue labeled with Anti-Phospho-Estrogen Receptor alpha (Ser118) Polyclonal Antibody, Unconjugated (ABIN684568) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Paraformaldehyde-fixed, paraffin embedded rat uterus tissue, Antigen retrieval by boiling in sodium citrate buffer(pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with Rabbit Anti-Estrogen receptor alpha (Ser118) Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated secondary and DAB staining

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN684568.