

Anti-Phospho-ER alpha (Ser118) Antibody (5S971)

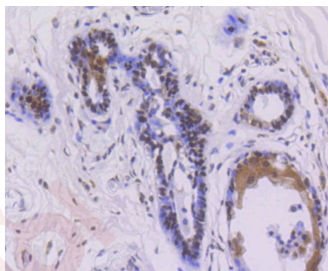
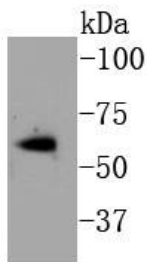
Product Details

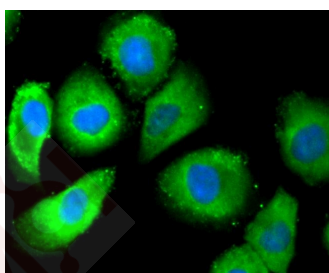
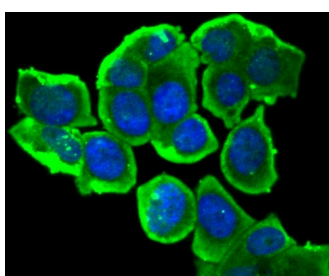
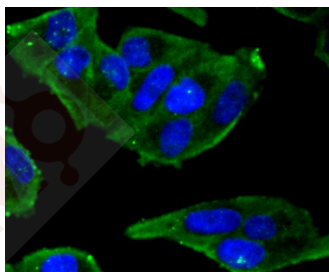
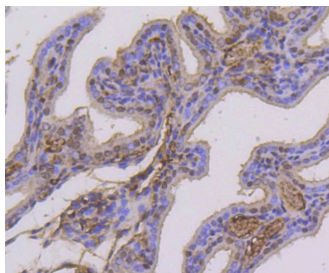
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 66 kDa.
Clone:	5S971
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Estrogen Receptor alpha (phospho S118) on MCF-7 cell lysates using anti-phospho-Estrogen Receptor alpha (S118) antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-phospho-Estrogen Receptor alpha (S118) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse placenta tissue using anti-phospho-Estrogen Receptor alpha (S118) antibody. Counter stained with hematoxylin.
4. ICC staining phospho-Estrogen Receptor alpha (S118) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining phospho-Estrogen Receptor alpha (S118) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining phospho-Estrogen Receptor alpha (S118) in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,IHC,WB
Recommended WB: 1:1000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human Estrogen Receptor alpha around the phosphorylation site of Ser118
Antigen Species: Human
Uniprot ID: P03372
Synonyms: p-ER alpha (Ser118);p-ER alpha (S118);ER alpha (p-Ser118);ER alpha (p-S118)

Research Background

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.

A DRUG SCREENING EXPERT

ERa undergoes phosphorylation in response to estradiol binding. Human ERa 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 ERa. 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 ERa. Mutation of Tyr 537 of the human ERa produces receptors having a range of constitutive activity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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