

ERa (phospho Ser118) Polyclonal Antibody

Catalog No: YP0104

Reactivity: Human; Mouse

Applications: WB;IHC;IF;ELISA

Target: Estrogen Receptor-a

Fields: >>Endocrine resistance;>>Estrogen signaling pathway;>>Prolactin signaling

pathway;>>Thyroid hormone signaling pathway;>>Endocrine and other factor-regulated calcium reabsorption;>>Pathways in cancer;>>Proteoglycans in cancer;>>Chemical carcinogenesis - receptor activation;>>Breast cancer

Gene Name: ESR1

Protein Name: Estrogen receptor

Human Gene Id: 2099

Human Swiss Prot

No:

Mouse Gene Id: 13982

Mouse Swiss Prot

No:

Immunogen : The antiserum was produced against synthesized peptide derived from human

Estrogen Receptor-alpha around the phosphorylation site of Ser118. AA

range:91-140

P03372

P19785

Specificity: Phospho-ERa (S118) Polyclonal Antibody detects endogenous levels of ERa

protein only when phosphorylated at S118.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 66kD

Background: This gene encodes an estrogen receptor, a ligand-activated transcription factor

composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative promoter usage and alternative splicing result in dozens of transcript variants, but the full-length nature of many of these variants

has not been determined. [provided by RefSeq, Mar 2014],

Function: domain: Composed of three domains: a modulating N-terminal domain, a DNA-

binding domain and a C-terminal steroid-binding domain.,function: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.,online information:Estrogen receptor

entry,polymorphism:Genetic variations in ESR1 are correlated with bone mineral density (BMD). Low BMD is a risk factor for osteoporotic fracture. Osteoporosis is

characterized by reduced bone mineral density, disrutption of bone

microarchitecture, and the alteration of the amount and variety of non-collagenous

proteins in bone. Osteoporotic bones are more at risk of

fracture.,PTM:Glycosylated; contains N-acetylglucosamine, probably O-linked.,PTM:Phosphorylated by cyclin A/CDK2. Phosphorylation probably

enhances transcri

Subcellular Location:

[Isoform 1]: Nucleus . Cytoplasm . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . A minor fraction is associated with the inner membrane.; [Isoform 3]: Nucleus. Cytoplasm. Cell membrane; Peripheral membrane protein;

Cytoplasmic side. Cell membrane; Single-pass type I membrane protein. Associated with the inner membrane via palmitoylation (Probable). At least a subset exists as a transmembrane protein with a N-terminal extracellular domain.

.; Nucleus. Golgi apparatus. Cell membrane. Colocalizes with ZDHHC7 and ZDHHC21 in the Golgi apparatus where most probably palmitoylation occurs.

Associated with the plasma membrane when palmitoylated.

Expression: Widely expressed (PubMed:10970861). Not expressed in the pituitary gland

(PubMed:10970861).; [Isoform 3]: Widely expressed, however not expressed in

the pituitary gland.



Tag: orthogonal

Sort : 5748

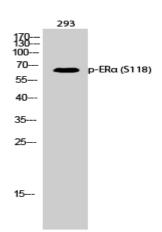
No2: 2511S

No4: 1

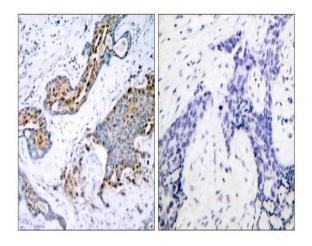
Host: Rabbit

Modifications : Phospho

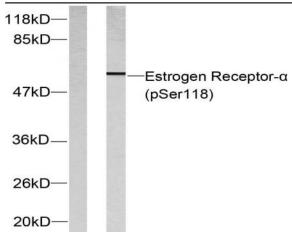
Products Images



Western Blot analysis of 293 cells using Phospho-ER α (S118) Polyclonal Antibody diluted at 1:2000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Estrogen Receptor-alpha (Phospho-Ser118) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from MCF7 cells treated with Estradiol, using Estrogen Receptor-alpha (Phospho-Ser118) Antibody. The lane on the left is blocked with the phospho peptide.