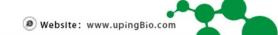


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# ERα (phospho Ser104) Polyclonal Antibody

Catalog No	YP-Ab-03276
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	ESR1
Protein Name	Estrogen receptor
Immunogen	The antiserum was produced against synthesized peptide derived from human Estrogen Receptor-alpha around the phosphorylation site of Ser104. AA range:71-120
Specificity	Phospho-ER $\alpha$ (S104) Polyclonal Antibody detects endogenous levels of ER $\alpha$ protein only when phosphorylated at S104.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200
Concentration	1 mg/ml
Concentration Purity	1 mg/ml ≥90%
Purity	≥90%
Purity Storage Stability	≥90%  -20°C/1 year  ESR1; ESR; NR3A1; Estrogen receptor; ER; ER-alpha; Estradiol receptor;
Purity Storage Stability Synonyms	≥90%  -20°C/1 year  ESR1; ESR; NR3A1; Estrogen receptor; ER; ER-alpha; Estradiol receptor;
Purity Storage Stability Synonyms Observed Band	≥90%  -20°C/1 year  ESR1; ESR; NR3A1; Estrogen receptor; ER; ER-alpha; Estradiol receptor; Nuclear receptor subfamily 3 group A member 1  [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.



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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

#### **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],

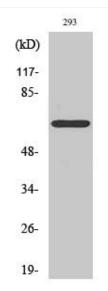
## matters needing attention

Avoid repeated freezing and thawing!

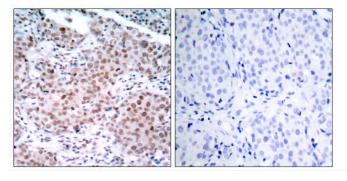
### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### **Products Images**



Western Blot analysis of various cells using Phospho-ERα (S104) Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Estrogen Receptor-alpha (Phospho-Ser104) Antibody. The picture on the right is blocked with the phospho peptide.