

## Product datasheet for **AP02607PU-S**

### Estrogen Receptor 1 (ESR1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1:500~1:1000. Immunohistochemistry: 1:50~1:100.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human Estrogen Receptor- $\alpha$ around the phosphorylation site of serine 106 (S-P- SP-P-L).
Specificity:	Estrogen Receptor- $\alpha$ antibody detects endogenous levels of total Estrogen Receptor- $\alpha$ protein.
Formulation:	PBS(without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4 containing 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity-chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	estrogen receptor 1
Database Link:	<a href="#">Entrez Gene 2099 Human P03372</a>



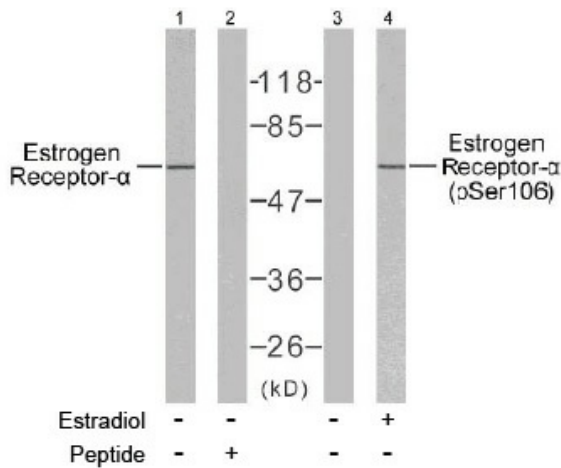
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**Background:**

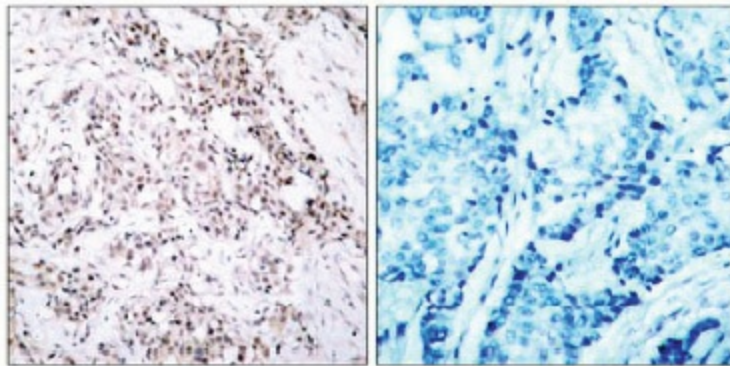
Estrogen Receptor alpha is a 65 kDa protein and a member of the steroid family of nuclear receptors. Estrogen Receptor alpha is a ligand-activated transcription factor that, when bound to estrogen, induces a conformational change that allows dimerization and binding to estrogen response element sequences. When bound to DNA, Estrogen Receptor alpha can positively or negatively regulate gene transcription. Like other steroid hormone receptors, Estrogen Receptors are intracellular proteins. Estrogen Receptors play an important role in regulating mammary gland growth and differentiation. Breast tumors that are ER positive may also show a more favorable response to anti-estrogen therapies.

**Synonyms:**

ER alpha, Estradiol receptor, ESR1, ESR, NR3A1

**Product images:**


Western blot analysis of extracts from MCF7 cells using Estrogen Receptor-α antibody (Lane 1 and 2) and Estrogen Receptor-α (pSer106) antibody (Lane 3 and 4).



Peptide -

Peptide +

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Estrogen Receptor-α antibody.