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Product datasheet for AP01582PU-N

Estrogen Receptor 1 (ESR1) pSer106 Rabbit Polyclonal Antibody

Product data:

| Product Type: | Primary Antibodies |
|-----------------------|---|
| Applications: | ELISA, IHC, WB |
| Recommended Dilution: | ELISA: 1/5000-1/10000. Western Blot: 1/500-1/1000. Immunohistochemistry: 1/50-1/200. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Specificity: | This antibody detects endogenous levels of Estrogen Receptor-alpha pSer106 protein. |
| Formulation: | Phosphate buffered saline (PBS), pH~7.2 containing 15 mM Sodium Azide as preservative. State: Aff - Purified State: Liquid purified lg fraction (> 95% pure by SDS-PAGE). |
| Concentration: | 1.0 mg/ml |
| Purification: | Affinity Chromatography using epitope-specific immunogen. |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: One year from despatch. |
| Gene Name: | estrogen receptor 1 |
| Database Link: | Entrez Gene 2099 Human P03372 |



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GRIGENE Estrogen Receptor 1 (ESR1) pSer106 Rabbit Polyclonal Antibody – AP01582PU-N

Background:Estrogen receptor α (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. ERα undergoes
phosphorylation in response to estradiol binding. Human ERα 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 ERα. 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 ERα. Mutation of Tyr
537 of the human ERα produces receptors having a range of constitutive activity.

Synonyms:

ER alpha, Estradiol receptor, ESR1, ESR, NR3A1

Product images:



Western blot (WB) analysis of Estrogen Receptoralpha pSer106 antibody in extracts from MCF7 cells.



Immunohistochemistry (IHC) analysis of Estrogen Receptor-alpha pSer106 ntibody in paraffinembedded human breast carcinoma tissue.

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