

## Product datasheet for **AP21027PU-N**

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

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	ER- $\alpha$ pAb detects endogenous levels of ER- $\alpha$ protein.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1,0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
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:	<a href="#">Entrez Gene 13982 Mouse</a> <a href="#">Entrez Gene 24890 Rat</a> <a href="#">Entrez Gene 2099 Human P03372</a>
Background:	The estrogen receptor- $\alpha$ (ER) is a broadly expressed transcription factor which controls a number of genes involved in cellular differentiation and proliferation. ER contains two transcriptionally active domains: the N-terminal domain (AF1) is constitutively active, while the C-terminal domain (AF-2) is hormone-dependent. ER is subject to posttranslational modification, including phosphorylation of serine residues 104, 106, 118, and 167. This antibody specifically recognizes human estrogen receptor- $\alpha$ when phosphorylated at serine 167, a site which influences AF-1 dependent transcriptional activity. This phosphorylation is catalyzed by the MAPK pathway, potentially through the 90 kDa ribosomal S6 kinase (pp90rsk1). Serine 167 is also a consensus Akt substrate.

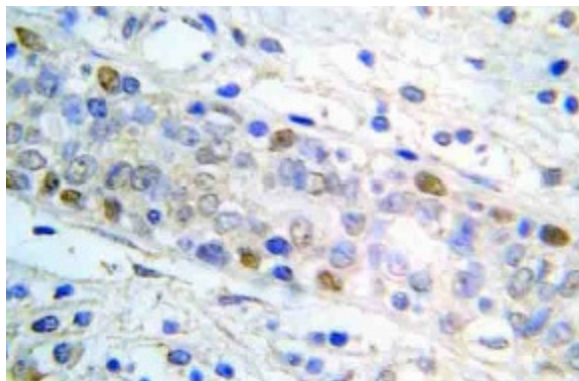


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**Synonyms:** ER alpha, Estradiol receptor, ESR1, ESR, NR3A1

**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Product images:**



Immunohistochemistry (IHC) analyzes of ER-a pAb in paraffin-embedded human breast carcinoma tissue.