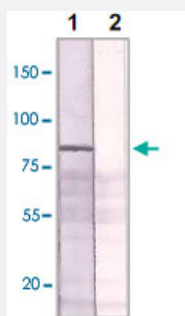


ESR1 (phospho S305) polyclonal antibody

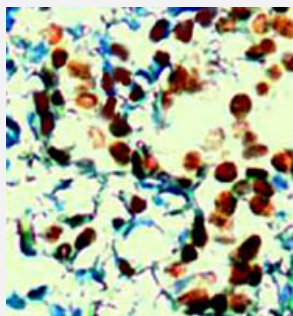
Catalog # PAB12622 Size 100 ug

Applications



Western Blot (Cell lysate)

The whole cell lysates derived from MCF-7 were immunoblotted by ESR1 (phospho S305) polyclonal antibody (Cat # PAB12622) at 1 : 500 (Lane 1). The immunoreactive band is blocked by pre-incubation of immunizing peptide (Lane 2).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human breast cancer tissue stained with ESR1 (phospho S305) polyclonal antibody (Cat # PAB12622) at 1 : 200 for 10 min at RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of ESR1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S305 of human ESR1.
Sequence	KNSLA
Host	Rabbit
Theoretical MW (kDa)	67
Reactivity	Human

Specificity	This antibody recognizes ~67 KDa of human ESR1 at the phosphorylation site of SESR1 305. It does not cross react to non-phosphorylated peptide.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) Immunohistochemistry (1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)
Storage Instruction	Store at 4°C. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

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- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ESR1

Entrez GeneID	2099
Gene Name	ESR1
Gene Alias	DKFZp686N23123, ER, ESR, ESRA, Era, NR3A1
Gene Description	estrogen receptor 1
Omim ID	133430 157300 608446

Gene Ontology

[Hyperlink](#)

Gene Summary

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 splicing results in several transcript variants, which differ in their 5' UTRs and use different promoters. [provided by RefSeq]

Other Designations

OTTHUMP00000017718|OTTHUMP00000017719|estrogen receptor alpha

Publication Reference

- [Ligand-independent interactions of p160/steroid receptor coactivators and CREB-binding protein \(CBP\) with estrogen receptor-alpha: regulation by phosphorylation sites in the A/B region depends on other receptor domains.](#)

Dutertre M, Smith CL.

Molecular Endocrinology (Baltimore, Md.) 2003 Apr; 17(7):1296.

Disease

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- [Vitiligo](#)
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- [Yang Deficiency](#)
- [Yin Deficiency](#)