

# Estrogen Receptor alpha Polyclonal Antibody

## Product Details

Size	50 µg
Species Reactivity	Human, Pig, Rat
Published Species	Rat, Pig, Deer, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues N(21) E L E P L N R P Q L K(32) C of human ER alpha.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325814

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	3 Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-5 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	1:1,000-1:4,000	2 Publications

## Product Specific Information

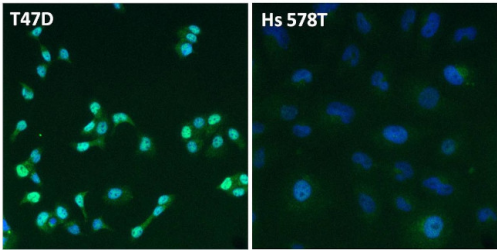
PA1-309 detects estrogen receptor (ER) alpha from human, porcine and rat tissues and cells.

PA1-309 has been successfully used in Western blot, immunofluorescence and immunohistochemistry procedures. By Western blot, this antibody detects an ~64 kDa protein representing ER alpha from MCF-7 cell extracts. Immunohistochemical staining of ER alpha in rat prostate with PA1-309 results in primarily nuclear staining.

The PA1-309 immunogen is a synthetic peptide corresponding to residues N(21) E L E P L N R P Q L K(32) C of human ER alpha. This peptide sequence is completely conserved between human, rat, mouse, rabbit, sheep, porcine and bovine species. PA1-309 immunizing peptide (Cat. # PEP-037) is available for use in neutralization and control experiments.

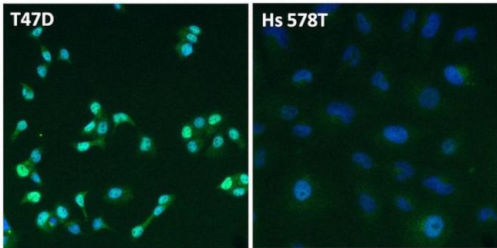
Recombinant ER alpha expressed in baculovirus system (Cat. # RP-310) can be purchased for control experiments in Western blot and gel shift assays.

Product Images For Estrogen Receptor alpha Polyclonal Antibody



**Estrogen Receptor alpha Antibody (PA1-309)**

The specificity of anti-ER alpha polyclonal antibody (Product # PA1-309) was demonstrated in Immunofluorescence analysis by the detection of endogenous Estrogen Receptor Alpha protein in T47D cells, but not in negative control line Hs578T which is not known to express Estrogen Receptor Alpha protein. {RE}



**Estrogen Receptor alpha Antibody (PA1-309) in ICC/IF**

Immunofluorescent analysis of Estrogen Receptor alpha (ER alpha, green) in T47D and Hs 578T breast cancer cells. The cells were fixed with 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 for 15 minutes at room temperature, and blocked with 0.3% BSA in PBS for at least 30 minutes at room temperature. Cells were stained with an ER alpha polyclonal antibody (Product # PA1-309) at a dilution of 1:2000 in blocking buffer overnight at 4C, and then incubated with a DyLight 488-conjugated goat anti-rabbit IgG secondary antibody (Product # 35552) at a dilution of 1:500 for at least 1 hour at room temperature. Nuclei (blue) were stained with DAPI (Product # 62247). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.

Fig. 1



**Estrogen Receptor alpha Antibody (PA1-309) in IHC**

Immunolocalization of ER alpha in rat prostate using Product # PA1-309.

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## Western Blot (3)

PloS one

### CSNK1G2 differently sensitizes tamoxifen-induced decrease in PI3K/AKT /mTOR/S6K and ERK signaling according to the estrogen receptor existence in breast cancer cells.

"Published figure using Estrogen Receptor alpha polyclonal antibody (Product # PA1-309) in Western Blot"

Authors: Nguyen Hoang AT,Hoe KL, Lee SJ

Year  
2021

**Biomarkers : biochemical indicators of exposure, response, and susceptibility to chemicals**

### ICAM-1 expression in vaginal cells as a potential biomarker for inflammatory response.

"PA1-309 was used in western blot to investigate ICAM-1 as a biomarker for inflammatory response in vaginal cells"

Authors: Youn H,Hong K,Yoo JW, Lee CH

Year  
2008

Species  
Human

[View more WB references on thermofisher.cn](#)

## Immunohistochemistry (5)

**Neuropathology : official journal of the Japanese Society of Neuropathology**

### Expression of estrogen receptor alpha and beta in reactive astrocytes at the male rat hippocampus after status epilepticus.

"Published figure using Estrogen Receptor alpha polyclonal antibody (Product # PA1-309) in Immunofluorescence"

Authors: Sakuma S,Tokuhara D,Hattori H,Matsuoka O,Yamano T

Year  
2009

**The Japanese journal of veterinary research**

### Immunohistochemical localization of the estrogen receptor alpha (ERalpha) and progesterone receptor (PR) in the uterus of sika deer (Cervus nippon) during pregnancy.

"PA1-309 was used in immunohistochemistry to investigate the distribution of estrogen receptor alpha progesterone receptor in the uterus of pregnant deer"

Authors: Yanagawa Y,Matsuura Y,Suzuki M,Katagiri S,Tsubota T

Year  
2008

Species  
Deer

[View more IHC references on thermofisher.cn](#)

## More applications with references on thermofisher.cn

IHC (P) (1)

ICC/IF (2)

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