

For Research Use Only

# ER Polyclonal antibody

Catalog Number: 21244-1-AP

Featured Product

68 Publications



## Basic Information

**Catalog Number:**

21244-1-AP

**Size:**

150ul, Concentration: 600 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG15738

**GenBank Accession Number:**

BC128573

**GeneID (NCBI):**

2099

**Full Name:**

estrogen receptor 1

**Calculated MW:**

595 aa, 66 kDa

**Observed MW:**

65-70 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:400-1:1600

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

IF, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

bovine, human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB: HeLa cells, MCF-7 cells, mouse testis tissue, NIH/3T3 cells, rat testis tissue

IHC: human cervical cancer tissue,

## Background Information

The estrogen receptor (ESR, ER) is a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. ESR1, also known as ESR or NR3A1, belongs to the nuclear hormone receptor family and NR3 subfamily. It is a nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. ESR1 can activate the transcriptional activity of TFF1.[PMID: 11731608,10970861]

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaojuan Shao	33014211	Can J Infect Dis Med Microbiol	IHC
Ying Fu	27815936	Croat Med J	WB
Mianmian Li	34711116	Pharm Biol	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

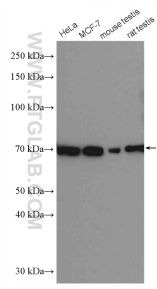
For technical support and original validation data for this product please contact:

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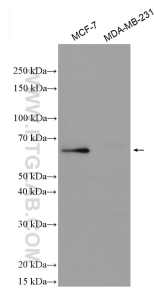
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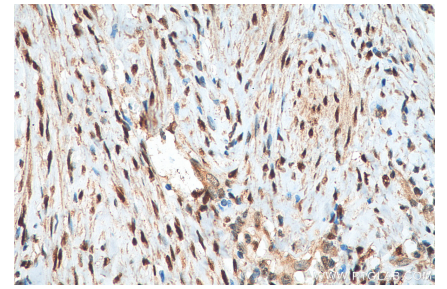
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21244-1-AP (ER antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



MCF-7 (ER+), MDA-MB-231 (ER-) cell lysates were subjected to SDS PAGE followed by western blot with 21244-1-AP (ER antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 21244-1-AP (ER antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).