

For Research Use Only

ER Polyclonal antibody

Catalog Number: 21244-1-AP

Featured Product

81 Publications



Basic Information

| | | |
|--|--|--|
| Catalog Number: 21244-1-AP | GenBank Accession Number: BC128573 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 600 µg/ml by Nanodrop and 500 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 2099 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:400-1:1600 |
| Source: Rabbit | Full Name: estrogen receptor 1 | |
| Isotype: IgG | Calculated MW: 595 aa, 66 kDa | |
| Immunogen Catalog Number: AG15738 | Observed MW: 65-70 kDa | |

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

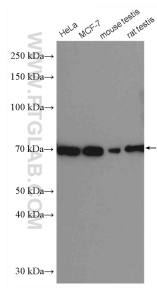
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

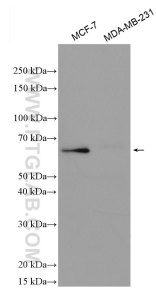
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

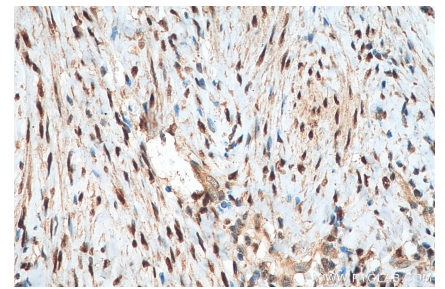
Selected Validation Data



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).