

For Research Use Only

# ESR2 Monoclonal antibody

Catalog Number: 60197-1-Ig

Featured Product

12 Publications



## Basic Information

Catalog Number:

60197-1-Ig

Size:

1300 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG5103

GenBank Accession Number:

BC024181

GeneID (NCBI):

2100

UNIPROT ID:

Q92731

Full Name:

estrogen receptor 2 (ER beta)

Calculated MW:

59 kDa

Observed MW:

50-60 kDa

Purification Method:

Protein G purification

CloneNo.:

5D2C9

Recommended Dilutions:

WB 1:1000-1:4000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

WB : MCF-7 cells, human brain tissue, SW 1990 cells

## Background Information

Estrogen receptor-beta (ESR2) is a member of the superfamily of nuclear receptors, which can transduce extracellular signals into transcriptional responses. It binds estrogens with an affinity similar to that of ESR1, and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen-dependent manner. DNA-binding by ESR1 and ESR2 is rapidly lost at 37 degrees Celsius in the absence of ligand while in the presence of 17 beta-estradiol and 4-hydroxy-tamoxifen loss in DNA-binding at elevated temperature is more gradual. ESR2 exists various isoform and range of calculated molecular weight of isoforms is 50-60 kDa. The experiment detected two bands for ESR2 in isolated human germ cells, one at 60 kDa and a weaker one at 50 kDa (PMID: 14766008).

## Notable Publications

| Author        | Pubmed ID | Journal               | Application |
|---------------|-----------|-----------------------|-------------|
| Chenglin Yang | 36257561  | Environ Pollut        | WB          |
| Qi Su         | 34792729  | Mol Biol Rep          | WB,IF       |
| Chun Pan      | 36522098  | J Environ Sci (China) | IHC         |

## 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:

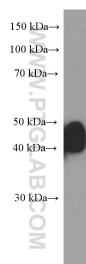
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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

## Selected Validation Data



MCF-7 cells were subjected to SDS PAGE followed by western blot with 60197-1-Ig (ESR2 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.