

# ESR2 Beta 3 Polyclonal antibody

Catalog Number: 55441-1-AP

## Basic Information

**Catalog Number:**

55441-1-AP

**Size:**

650 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_001437

**GeneID (NCBI):**

2100

**UNIPROT ID:**

Q92731

**Full Name:**

estrogen receptor 2 (ER beta)

**Calculated MW:**

58 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

IF/ICC, IHC, ELISA

**Species Specificity:**

human

**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:**

**IHC :** human cervix tissue, human breast cancer tissue, human endometrial cancer tissue

**IF/ICC :** HeLa 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

## Storage

**Storage:**

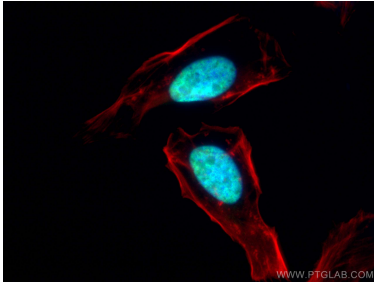
Store at -20°C.

**Storage Buffer:**

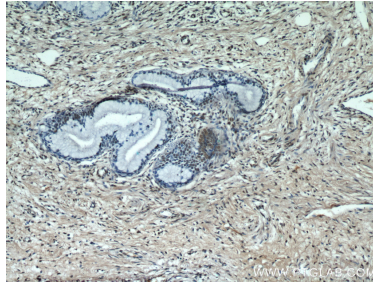
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ESR2 Beta 3 antibody (55441-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red) DAPI (blue).



Immunohistochemical analysis of paraffin-embedded human cervix using 55441-1-AP (ESR2 Beta-3 antibody) at dilution of 1:50 (under 10x lens).