

## Anti-ER beta Antibody (4M551)

## Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4M551
Purification:	Protein A

## Applications

Verified Activity:	Immunofluorescence staining of ER beta in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-Human ER beta monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-mouse IgG secondary antibody (green). Positive staining was localized to Nucleus.
Application:	ICC/IF
Recommended	ICC-IF: 1:20-1:100

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: C-terminus of the Human ER beta/ESR2
Antigen Species:	Human

## Research Background

Estrogen signal mediated by estrogen receptor (ER), which is involved in various diseases related to steroid hormone, such as cancer. A number of association studies have focused on ESR2 polymorphisms to investigate the relationship with cancer risk. The development of endometriosis is associated with changes in the expression of genes encoding the 3beta-hydroxysteroid dehydrogenase type II (HSD3B2) and 17beta-hydroxysteroid dehydrogenase type II (HSD17B2), estrogen receptors 1 (ESR1) and 2 (ESR2) and the androgen receptor (AR). Estrogen receptor 2 (ESR2) plays a critical role in folliculogenesis and ovulation. Disruption of ESR2-function in the rats results in female infertility due to failure of ovulation, that ESR2 regulates key genes in GCs that are essential for follicle maturation and ovulation in the rat. There is a strong association between ESR2 SNPs and BMD, indicating that ESR2 may influence attainment of bone mass.

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