

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                          |
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| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                    |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human ERβ/NR3A2 in direct ELISAs.                                                |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>1</sub> Clone # 1013506                                        |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                               |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human ERβ/NR3A2<br>Met1-Gly318<br>Accession # Q92731 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm          |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                             |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                          |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Immunocytochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Estrogen Receptor beta (ERβ; NR3A2) is a member of the steroid receptor family. The natural ligand for ER is the classical estrogenic compound 17β-estradiol. ERβ is expressed in the granulosa cell layer of primary, secondary and mature follicles in the ovary, in bone, bladder, uterus, testis, epididymis, gastrointestinal tract, kidney, breast, heart, vessel wall, immune system, lung, pituitary, hippocampus and hypothalamus. Roles for ERβ in the reproductive and cardiovascular systems have been reported, although these are the subject of conflicting reports. ERβ has been postulated to act primarily as a modulator of ERα function. ERβ has been shown to form homodimers as well as heterodimers with ERα. Both ERα and ERβ can give rise to numerous isoforms.

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