

# Anti human ER beta mouse monoclonal antibody

ER beta: Estrogen Receptor beta

**Code No** PP-PPZ0506-00

**Clone No.** PPZ0506

**Lot.** \*\*\*

**Concentration** 1 mg/mL

**Volume** 100 uL

**Ig Class** G2b

**Description** Estrogen receptor beta (ERb; NR3A2) is a member of steroid receptor. The natural ligand for ER is the classical estrogenic compound 17b-estradiol. ERb is expressed in 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 ERb in the reproductive and cardiovascular systems have been reported, although these are the subject of conflicting reports. ERb has been postulated to act primarily as a modulator of ERa function. ERb has been shown to form homodimers as well as heterodimers with ERa. Both ERa and ERb can give rise to numerous isoforms.

**Nomenclature** NR3A2

**Genbank** AB006590

**Origin** Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human ER beta (2-88 aa) .

**Specificity** This antibody specifically recognizes human ER beta but does not recognize human ER alpha. Not yet tested in other species.

**Purification** Ammonium sulfate fractionation

**Formulation** Physiological saline with 0.1% NaN<sub>3</sub> as a preservative.

## Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

**Western Blot** 1 ug/mL

**Non reducing Western Blot** Not yet tested

**ELISA** 0.2 ug/mL (A450=0.1)

**Immunoprecipitation** Decide by use

**Supershift Assay** Not yet tested

**Chromatin immunoprecipitation** Not yet tested

**Immunohistochemistry** Not yet tested

**Storage** Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

## Reference

**Notes** Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

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