

# Product datasheet for AP06806PU-N

## Estrogen Receptor beta (ESR2) Rabbit Polyclonal Antibody

## **Product data:**

#### **Product Type: Primary Antibodies Applications:** ELISA, IF, WB **Recommended Dilution: Western blot:** 1/500-1/1000. Immunofluorescence: 1/50-1/200. **Reactivity:** Human, Mouse, Rat Host: Rabbit **Clonality:** Polyclonal Synthetic peptide, corresponding to amino acids 71-120 of Human ERβ. Immunogen: The antibody detects endogenous levels of ER-beta protein. Specificity: (region surrounding Glu101) Formulation: Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE). Preservative: 0.05% Sodium Azide **Concentration:** 1.0 mg/ml **Purification:** Affinity Chromatography using epitope-specific immunogen. **Conjugation:** Unconjugated Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. Predicted Protein Size: ~ 46, 60 kDa Gene Name: estrogen receptor 2 Database Link: Entrez Gene 2100 Human Q92731



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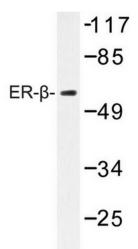
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### Strogen Receptor beta (ESR2) Rabbit Polyclonal Antibody – AP06806PU-N

Background: The discovery of a second estrogen receptor has redefined the estrogen signaling pathway and may have broad implications on estrogen-responsive tissues. The new estrogen receptor, named estrogen receptor-beta (ER $\beta$ ), is preferentially expressed in the prostate and maintains some characteristics that are different from ERa.2 The rat tissue distribution and/or the relative level of ER $\alpha$  and ER $\beta$  expression seems to be quite different, i.e., moderate to high expression in uterus, testis, pituitary, ovary, kidney, epididymis, and adrenal for ERa and prostate, ovary, lung, bladder, brain, bone, uterus, and testis for ER<sub>β</sub>. Within the same organ it often appears that the ER subtypes are expressed in different cell types, supporting the hypothesis that the ER's may have different biological functions. The discovery of ERβ suggests the existence of two previously unrecognized pathways of estrogen signaling, via the ER $\beta$  subtype in tissues exclusively expressing this subtype and via the formation of heterodimers in tissues expressing both ER subtypes. The existence of two ER subtypes, their differential expression pattern, and different actions on certain response elements could provide explanations for the striking species-, cell-, and promoter-specific actions of estrogens and antiestrogens.3 Both estrogen receptors appear to be involved in a multitude of regulatory events.

Synonyms: ER-beta,ESR2, ESTRB, NR3A2

## **Product images:**



Western blot (WB) analysis of ER-beta antibody in extracts from HeLa cells.

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