

## Product datasheet for **AP23349PU-N**

### Estrogen Receptor beta (ESR2) (N-term) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: At 0.5-1µg/ml with the appropriate system to detect ERβ in cells and tissues.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide mapping at the N-terminal of human ERβ
Specificity:	This antibody detects Estrogen receptor beta.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	estrogen receptor 2
Database Link:	<a href="#">Entrez Gene 13983 Mouse</a> <a href="#">Entrez Gene 25149 Rat</a> <a href="#">Entrez Gene 2100 Human Q92731</a>



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**Background:**

Estrogen receptor-beta, referred to as ESR2, is a member of the superfamily of nuclear receptors, which can transduce extracellular signals into transcriptional responses. This gene is mapped to 14q and comprises 8 exons spanning approximately 40 kb. ESR2 is expressed in multiple tissues, including developing spermatids of the testis and in ovarian granulosa cells. ESR-beta is homologous to the previously identified ESR-alpha and has an overlapping but nonidentical tissue distribution. The DNA-binding domain of ESR-beta is 96% conserved compared to ESR, and the ligand-binding domain shows 58% conserved residues. ESR-beta is expressed in human thymus, spleen, ovary, and testis. Rat ESR-beta is expressed in rat prostate and ovary and is homologous to rat ESR (95% conserved DNA-binding domain; 55% conserved ligand-binding domain). ESR2 mRNA was coexpressed with ESR1 and its splice variants in 60% of prolactinomas, 100% of mixed growth hormone /prolactin tumors, and 29% of gonadotroph tumors. ESR2 gene expression was not limited to ESR1-positive tumor subtypes, however, and was also found in 100% of null cell tumors, 80% of somatotroph tumors, and 60% of corticotroph tumors.

**Synonyms:**

ER-beta, ESR2, ESTRB, NR3A2

**Protein Families:**

Druggable Genome, Nuclear Hormone Receptor, Transcription Factors