

**AP23349PU-N****Polyclonal Antibody to Estrogen receptor beta (N-term) - Aff - Purified**

<b>Alternate names:</b>	ER-beta, ESR2, ESTRB, NR3A2, Nuclear receptor subfamily 3 group A member 2
<b>Quantity:</b>	0.1 mg
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">Q92731</a>
<b>NCBI:</b>	<a href="#">NP_001035365</a>
<b>GeneID:</b>	<a href="#">2100</a>
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	A synthetic peptide mapping at the N-terminal of human ER $\beta$ <b>Remarks:</b> Sequence is different from the related mouse sequence by four amino acids.
<b>Format:</b>	<b>State:</b> Lyophilized Ig fraction <b>Purification:</b> Immunogen affinity purified <b>Buffer System:</b> 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> N <b>Reconstitution:</b> 0.2ml of distilled water will yield a concentration of 500 $\mu$ g/ml.
<b>Applications:</b>	Western blot: At 0.5-1 $\mu$ g/ml with the appropriate system to detect ER $\beta$ in cells and tissues. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects Estrogen receptor beta.
<b>Species Reactivity:</b>	<b>Tested:</b> Human, mouse, rat

**Storage:**

Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.