

Product datasheet for **TA354331**

Estrogen Receptor beta (ESR2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to the c-terminus of human Estrogen Receptor Beta. .
Formulation:	This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The Rabbit IgG is purified by Epitope Affinity Purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	53 kDa
Gene Name:	estrogen receptor 2
Database Link:	NP_001035365 Entrez Gene 2100 Human Q92731



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Background:

ER (estrogen receptor) belongs to a member of the steroid receptor superfamily. It contains highly conserved DNA binding (DBD) and ligand binding domains (LBD). The transcriptional effects of 17 β -estradiol (E2) in the body are mediated by two distinct ERs, ER-alpha and ER-beta. ER-alpha plays an important role in differentiation by regulating target genes such as that for the progesterone receptor (PR). Both the stroma and epithelium express PR, and estrogen induces PR in the stromal and glandular epithelial cells. ER-alpha and ER-beta may have opposite effects on gene transcription. ER-beta can act as a transdominant repressor on ER-alpha transcriptional activity. ER-beta acts as a modulator of ER-alpha-mediated gene transcription in the uterus, and furthermore, that it is responsible for down regulation of PR in the luminal epithelium.

Synonyms:

ER-BETA; Erb; ESR-BETA; ESRB; ESTRB; NR3A2

Protein Families:

Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Product images:

WB: The whole cell lysates derived from MCF-7 were immunoblotted by Rabbit anti-ER-beta at 1:500 (Lane 1). The immunoreactive band is blocked by preincubation of immunizing peptide (lane 2)



IHC: Human breast cancer tissue stained with Anti-ER-beta antibody, at 1:200 for 10 min at RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.