

Recombinant Human ESR2

Cat. No. ESR2-28403TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Estrogen Receptor beta with proprietary tag at the N terminal; Predicted MW 36.63 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Isoform beta-1 is expressed in testis and ovary, and at a lower level in heart, brain, placenta, liver, skeletal muscle, spleen, thymus, prostate, colon, bone marrow, mammary gland and uterus. Also found in uterine bone, breast, and ovarian tumor cell lin

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	ILPLEHGSIYIPSSYVDSHHEY PAMTFYSPAVMNYSIPSNVTNLEGGPGRQTTSPNVL WPTPGHLSPLVVHRQLSHLYAEPQKSPWCEARSLEHTLPVNR
Sequence Similarities	Belongs to the nuclear hormone receptor family. NR3 subfamily.Contains 1 nuclear receptor DNA-binding domain.

GENE INFORMATION

Gene Name	ESR2 estrogen receptor 2 (ER beta) [Homo sapiens]
Official Symbol	ESR2
Synonyms	ESR2; estrogen receptor 2 (ER beta); estrogen receptor beta; Erb; NR3A2;
Gene ID	2100
mRNA Refseq	NM_001040275
Protein Refseq	NP_001035365
MIM	601663

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Uniprot ID	Q92731
Chromosome Location	14q21-q22
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem; Nuclear Receptors, organism-specific biosystem;
Function	DNA binding; enzyme binding; estrogen receptor activity; ligand-dependent nuclear receptor activity; metal ion binding;

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