

Recombinant Human ESR2 293 Cell Lysate

Cat. No. ESR2-6539HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for estrogen receptor 2 (ER beta) (ESR2), transcript variant a is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; estrogen receptor beta 4; estrogen nuclear receptor beta variant a; estrogen nuclear receptor beta variant b; nuclear receptor subfamily 3 group A member 2; ESRB; ESTRB; ER-BETA; ESR-BETA;

Gene ID

2100

mRNA Refseq

NM_001040275

Protein Refseq

NP_001035365

MIM

601663

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

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biosystem; Nuclear Receptors, organism-specific biosystem; Ovarian Infertility Genes, organism-specific biosystem; Plasma membrane estrogen receptor signaling, organism-specific biosystem;

Function

DNA binding; core promoter sequence-specific DNA binding; enzyme binding; estrogen receptor activity; estrogen response element binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; metal ion binding; protein binding; receptor activity; receptor antagonist activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; steroid binding; steroid hormone receptor activity; transcription coactivator activity; zinc ion binding;