

Recombinant Human ESR1 293 Cell Lysate

Cat. No. ESR1-6540HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for estrogen receptor 1 (ESR1), transcript variant 1 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [ESR1 estrogen receptor 1 \[Homo sapiens \]](#)

Official Symbol ESR1

Synonyms ESR1; estrogen receptor 1; ESR; estrogen receptor; Era; NR3A1; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha delta 4 +49 isoform; nuclear receptor subfamily 3 group A member 1; estrogen receptor alpha 3*,4,5,6,7*/822 isoform; estrogen receptor alpha delta 4*,5,6,7*/654 isoform; estrogen receptor alpha delta 4*,5,6,7,8*/901 isoform; estrogen receptor alpha delta 3*,4,5,6,7*/819-2 isoform; estrogen receptor alpha delta 3*,4,5,6,7*,8*/941 isoform; ER; ESRA; DKFZp686N23123;

Gene ID [2099](#)

mRNA Refseq [NM_000125](#)

Protein Refseq [NP_000116](#)

UniProt ID [P03372](#)

Chromosome Location 6q24-q27

Pathway Androgen Receptor Signaling Pathway, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem; Estrogen signaling pathway, organism-specific biosystem; FOXA1 transcription factor network,

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organism-specific biosystem; FOXM1 transcription factor network, organism-specific biosystem; Gene Expression, organism-specific biosystem;

Function

DNA binding; beta-catenin binding; chromatin binding; core promoter sequence-specific DNA binding; enzyme binding; enzyme binding; estrogen receptor activity; estrogen receptor activity; estrogen response element binding; hormone binding; identical protein binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; metal ion binding; nitric-oxide synthase regulator activity; protein binding; protein complex binding; receptor activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; steroid binding; steroid hormone receptor activity; steroid hormone receptor activity; transcription factor binding; type 1 metabotropic glutamate receptor binding; zinc ion binding;

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