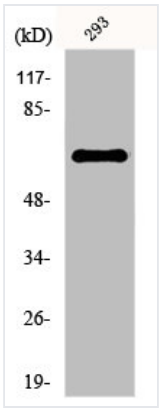
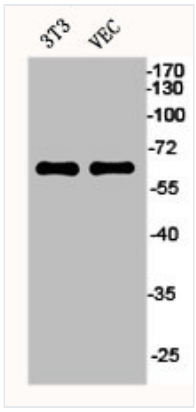
ESR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ESR1, Polyclonal Antibody
Full Product Name	ESR1 Antibody
Product Gene Name	anti-ESR1 antibody
Product Synonym Names	ESR1; ESR; NR3A1; Estrogen receptor; ER; ER-alpha; Estradiol receptor; Nuclear receptor subfamily 3 group A member 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	66,216 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (152011631..152424409). Location: 6q25.1
OMIM	133430
3D Structure	ModBase 3D Structure for P03372
Immunogen	Synthesized peptide derived from human ERalpha around the non-phosphorylation site of Y537.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-ESR1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ESR1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-ESR1 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 IF: 1:200-1:1000 ELISA: 1:10000
Related Product Information for anti-ESR1 antibody	MBS7122006 is an antibody targeting ESR1. Also known as ESR1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ESR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ESR1 antibody
Western Blot analysis of 293 cells using ERalpha Polyclonal Antibody



Western Blot (WB) of anti-ESR1 antibody
Western Blot analysis of NIH-3T3 VEC cells using ERalpha Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ESR1. It may not necessarily be applicable to this product.

NCBI GI #	62821794
NCBI GeneID	2099
NCBI Accession #	NP_000116.2
UniProt Primary Accession #	P03372
UniProt Secondary Accession #	Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7
UniProt Related Accession #	P03372
GenBank Nucleotide #	NM_000125.3
NCBI Official Full Name	estrogen receptor
NCBI Official Synonym Full Names	estrogen receptor 1
NCBI Official Symbol	ESR1
NCBI Official Synonym Symbols	ER; ESR; Era; ESRA; NR3A1
UniProt Protein Name	Estrogen receptor
UniProt Synonym Protein Names	ER-alpha; Estradiol receptor; Nuclear receptor subfamily 3 group A member 1
Protein Family	Estrogen receptor
UniProt Gene Name	ESR1
UniProt Synonym Gene Names	ESR; NR3A1; ER
UniProt Entry Name	ESR1_HUMAN
NCBI Protein Information	estrogen receptor; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha E1-E2-1-2; estrogen receptor alpha E1-N2-E2-1-2; estrogen receptor alpha delta 4 +49 isoform; nuclear receptor subfamily 3 group A member 1; estrogen
NCBI Summary for ESR1	This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in several transcript variants, which differ in their 5' UTRs and use different promoters. [provided by RefSeq, Jul 2008]

UniProt Comments for ESR1	ER-alpha: a nuclear hormone receptor and transcription factor. Regulates gene expression and affects cellular proliferation and differentiation in target tissues. Two splice-variant isoforms have been described. Protein type: Nuclear receptor; DNA-binding Chromosomal Location of Human Ortholog: 6q25.1 Cellular Component: nucleoplasm; Golgi apparatus; membrane; cytoplasm; plasma membrane; integral to membrane; nucleus Molecular Function: identical protein binding; estrogen receptor activity; zinc ion binding; nitric-oxide synthase regulator activity; beta-catenin binding; estrogen response element binding; transcription factor binding; steroid binding; protein binding; enzyme binding; steroid hormone receptor activity; chromatin binding; transcription factor activity Biological Process: estrogen receptor signaling pathway; positive regulation of nitric oxide biosynthetic process; uterus development; signal transduction; response to estradiol stimulus; regulation of apoptosis; positive regulation of fibroblast proliferation; elevation of cytosolic calcium ion concentration; regulation of transcription, DNA-dependent; epithelial cell development; steroid hormone receptor signaling pathway; transcription initiation from RNA polymerase II promoter; transcription, DNA-dependent; antral ovarian follicle growth; positive regulation of nitric-oxide synthase activity; negative regulation of transcription factor activity; male gonad development; androgen metabolic process; vagina development; positive regulation of retinoic acid receptor signaling pathway; negative regulation of I-kappaB kinase/NF-kappaB cascade; chromatin remodeling; response to estrogen stimulus; gene expression; positive regulation of transcription factor activity; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); positive regulation of transcription from RNA polymerase II promoter; steroid hormone mediated signaling Disease: Breast Cancer; Migraine With Or Without Aura, Susceptibility To, 1; Myocardial Infarction, Susceptibility To; Estrogen Resistance
Research Articles on ESR1	**1.** The expression of deltaEF1 is up-regulated by 17beta-estradiol (E2) in MCF-7 cells in an ER-alpha-dependent manner.
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