Estrogen Receptor (ESR1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Estrogen Receptor (ESR1), Polyclonal Antibody
Full Product Name	Estrogen Receptor antibody
Product Gene Name	anti-ESR1 antibody
Product Synonym Names	Polyclonal Estrogen Receptor; Anti-Estrogen Receptor
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG purified by protein A chromatography and supplied in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% NaN3.
Purity/Purification	Estrogen Receptor antibody was purified by Protein A chromatography.
Concentration	~1.0 mg/ml (lot specific)
Specificity	Human
Preparation and Storage	Store at 4 degree C.
Molecular Weight	67 kDa (predicted detection band MW)
OMIM	133430
3D Structure	ModBase 3D Structure for P03372
Cross-Reactivity	Hamster, monkey
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.
Immunogen	Estrogen receptor antibody was raised in rabbit using a synthetic peptide derived from the C-terminus of human estrogen receptor, alpha protein as the immunogen.
Product Categories/Family for anti-ESR1 antibody	Hormones & Steroids
Applications Tested/Suitable for anti-ESR1 antibody	Immunohistochemistry (IHC) Formalin/Paraffin, Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-ESR1 antibody	IHC-F/P: 1:250-1:500 IP: 10 ug/mg protein lysate WB: 2.5-5 ug/ml
Related Product Information for anti-ESR1 antibody	MBS534924 is an antibody targeting ESR1. Also known as Estrogen Receptor antibody. Reactive in Human. Host: Rabbit. Rabbit polyclonal Estrogen Receptor antibody
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.

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 isoform 1
NCBI Official Synonym Full Names	estrogen receptor 1
NCBI Official Symbol	ESR1
NCBI Official Synonym Symbols	ER; ESR; Era; ESRA; ESTRR; 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
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 promoter usage and alternative splicing result in dozens of transcript variants, but the full-length nature of many of these variants has not been determined. [provided by RefSeq, Mar 2014]

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; negative regulation of transcription factor activity; positive regulation of nitric-oxide synthase activity; antral ovarian follicle growth; androgen metabolic process; male gonad development; 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; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); steroid hormone mediated signaling; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription factor activity; gene expression Disease: Breast Cancer; Migraine With Or Without Aura, Susceptibility To, 1; Myocardial Infarction, Susceptibility To; Estrogen Resistance
Research Articles on ESR1	**1.** SGC7901 cells with high levels of ER-a36 expression exhibited estrogen hypersensitivity, high growth rate and high levels of Cyclin D1 expression while SGC7901 cells with knocked-down levels of ER-a36 expression were insensitive to estrogen stimulation
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