ESR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ESR1, Polyclonal Antibody
Full Product Name	ESR1 Conjugated Antibody
Product Gene Name	anti-ESR1 antibody
Product Synonym Names	ER; ESR; Era; ESRA; ESTRR; NR3A1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total ESR1 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	35,547 Da
OMIM	133430
3D Structure	ModBase 3D Structure for P03372
Immunogen	Fusion protein corresponding to residues near the C terminal of human estrogen receptor 1
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ESR1 antibody	Most Applications
Application Notes for anti-ESR1 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ESR1 antibody	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.
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.

Searchable Terms for ESR1 purchase	MBS9446905 is an antibody targeting ESR1. Also known as ESR1 Conjugated Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	118763946
NCBI GeneID	2099
NCBI Accession #	BC128573
UniProt Primary Accession #	P03372
UniProt Secondary Accession #	Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7
UniProt Related Accession #	P03372
NCBI Official Full Name	Homo sapiens estrogen receptor 1, mRNA
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; 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.** Nuclear ERalpha expression is an independent predictor of recurrence in pT1a lung adenocarcinomas and correlates with poor prognostic immune microenvironments.
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