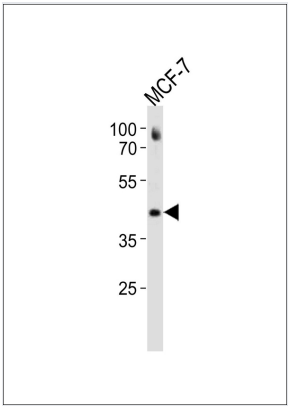
ESR2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ESR2, Polyclonal Antibody
Full Product Name	ESR2, CT (ESR2, ESTRB, NR3A2, Estrogen receptor beta, Nuclear receptor subfamily 3 group A member 2)
Product Gene Name	anti-ESR2 antibody
Product Synonym Names	Anti -ESR2, CT (ESR2, ESTRB, NR3A2, Estrogen receptor beta, Nuclear receptor subfamily 3 group A member 2)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	59,216 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (64693751..64805268, complement). Location: 14q23.2
OMIM	601663
3D Structure	ModBase 3D Structure for Q92731
Immunogen	ESR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 497-527 amino acids from the C-terminal region of human ESR2.
Product Categories/Family for anti-ESR2 antibody	Antibodies; Abs to Receptors; Estrogen
Applications Tested/Suitable for anti-ESR2 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-ESR2 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-ESR2 antibody	This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized.
Other Notes	Small volumes of anti-ESR2 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 ESR2 purchase	MBS6013286 is an antibody targeting ESR2. Also known as ESR2, CT (ESR2, ESTRB, NR3A2, Estrogen receptor beta, Nuclear receptor subfamily 3 group A member 2). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ESR2 antibody
ESR2 Antibody (C-term) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the ESR2 antibody detected the ESR2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ESR2. It may not necessarily be applicable to this product.

NCBI GI #	333609295
NCBI GeneID	2100
NCBI Accession #	NP_001201832.1
UniProt Primary Accession #	Q92731
UniProt Secondary Accession #	O60608; O60685; O60702; O60703; O75583; O75584; Q0MWT5; Q0MWT6; Q86Z31; Q9UEV6; A8K8K5
UniProt Related Accession #	Q92731
GenBank Nucleotide #	NM_001214903.1
NCBI Official Full Name	estrogen receptor beta isoform 4
NCBI Official Synonym Full Names	estrogen receptor 2 (ER beta)
NCBI Official Symbol	ESR2
NCBI Official Synonym Symbols	Erb; ESRB; ESTRB; NR3A2; ER-BETA; ESR-BETA
UniProt Protein Name	Estrogen receptor beta
UniProt Synonym Protein Names	Nuclear receptor subfamily 3 group A member 2
Protein Family	Estrogen receptor
UniProt Gene Name	ESR2
UniProt Synonym Gene Names	ESTRB; NR3A2; ER-beta
UniProt Entry Name	ESR2_HUMAN
NCBI Protein Information	estrogen receptor beta; estrogen receptor beta 4; estrogen nuclear receptor beta variant a; estrogen nuclear receptor beta variant b; nuclear receptor subfamily 3 group A member 2

UniProt Comments for ESR2	ER-beta: a nuclear hormone receptor and transcription factor. Binds and activated by estrogen. Regulates gene expression and affects cellular proliferation and differentiation in target tissues. Binds estrogens with an affinity similar to that of ER-alpha, and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen-dependent manner. Eight alternatively-spliced isoforms have been described. Isoform beta-cx lacks ligand binding ability and has no or only very low ERE binding activity resulting in the loss of ligand-dependent transactivation ability. Protein type: Nuclear receptor; DNA-binding Chromosomal Location of Human Ortholog: 14q23.2 Cellular Component: nucleoplasm; mitochondrion; extracellular region; nucleus Molecular Function: protein binding; receptor antagonist activity; ligand-dependent nuclear receptor activity; estrogen receptor activity; enzyme binding; DNA binding; zinc ion binding; transcription coactivator activity; estrogen response element binding; steroid hormone receptor activity; transcription factor activity; steroid binding Biological Process: transcription initiation from RNA polymerase II promoter; estrogen receptor signaling pathway; induction of apoptosis by hormones; neuron migration; vagina development; negative regulation of transcription from RNA polymerase II promoter; uterus development; signal transduction; cell-cell signaling; regulation of transcription, DNA-dependent; ovarian follicle development; steroid hormone mediated signaling; gene expression; positive regulation of transcription factor activity; brain development; negative regulation of cell growth; negative regulation of epithelial cell proliferation
Research Articles on ESR2	**1.** ER-beta is fundamental in overcoming acquired tamoxifen resistance.
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