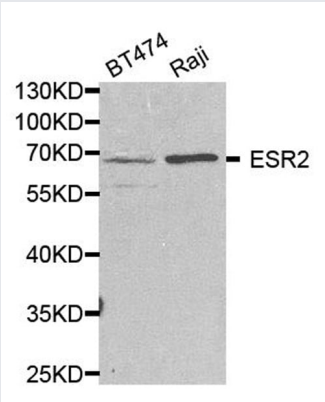
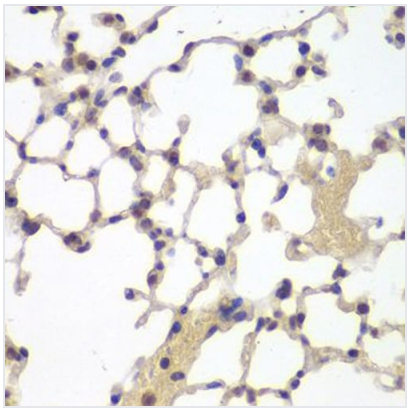
ESR2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ESR2, Polyclonal Antibody
Full Product Name	ESR2 Polyclonal Antibody
Product Gene Name	anti-ESR2 antibody
Product Synonym Names	Erb; ESRB; ESTRB; NR3A2; ER-BETA; ESR-BETA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity Purification
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	530
OMIM	601663
3D Structure	ModBase 3D Structure for Q92731
Species	Human
Immunogen	Recombinant protein of human ESR2
Calculated Molecular Weight	59kDa
Product Categories/Family for anti-ESR2 antibody	Polyclonal
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ESR2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-ESR2 antibody	WB: 1:500 - 1:2000 IHC: 1:50 - 1:200
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	MBS128113 is an antibody targeting ESR2. Also known as ESR2 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-ESR2 antibody
Western blot analysis of extracts of various cell lines, using ESR2 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.



Immunohistochemistry (IHC) of anti-ESR2 antibody
Immunohistochemistry of paraffin-embedded mouse lung using ESR2 antibody at dilution of 1:200 (40x lens).

ADDITIONAL DETAILS

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

NCBI GI #	6166154
NCBI GeneID	2100
NCBI Accession #	Q92731.2
UniProt Primary Accession #	Q92731
UniProt Secondary Accession #	O60608; O60685; O60702; O60703; O75583; O75584; Q0MWT5; Q0MWT6; Q86Z31; A8K8K5; G3V5M5
UniProt Related Accession #	Q92731
NCBI Official Full Name	Estrogen receptor beta
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; 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: DNA-binding; Nuclear receptor 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; enzyme binding; estrogen receptor activity; DNA binding; zinc ion binding; transcription coactivator activity; steroid hormone receptor activity; estrogen response element binding; 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; signal transduction; uterus development; ovarian follicle development; regulation of transcription, DNA-dependent; cell-cell signaling; steroid hormone mediated signaling; positive regulation of transcription factor activity; gene expression; negative regulation of cell growth; brain development; negative regulation of epithelial cell proliferation
Research Articles on ESR2	**1.** Data suggest that estrogen receptor (ER) subtypes (ERalpha and ERbeta) might play different roles in the development of breast cancer.
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