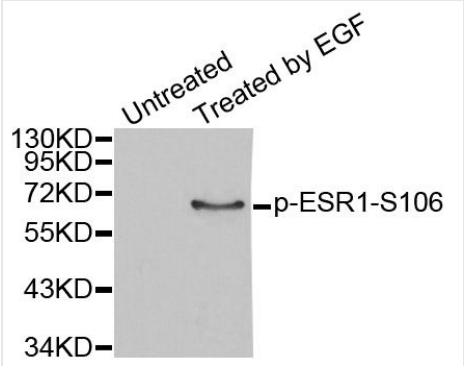
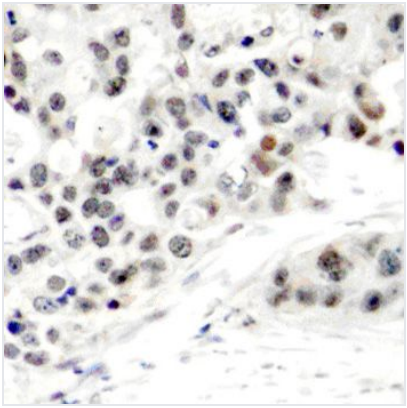
ESR1 Antibody – Rabbit

PRODUCT OVERVIEW

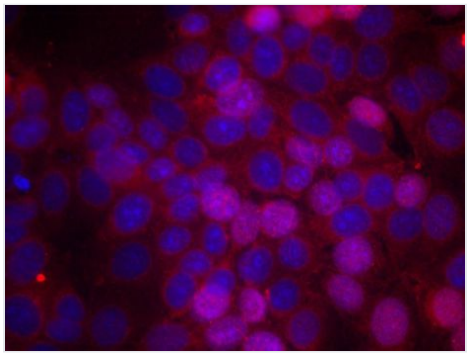
Product Name	ESR1-S106, Antibody
Full Product Name	Phospho-ESR1-S106 Polyclonal Antibody
Product Gene Name	anti-ESR1 antibody
Product Synonym Names	Phospho-ESR1-S106: ER; ESR; Era; ESRA; ESTRR; NR3A1
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity Purification
Concentration	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	595
OMIM	gene 615363
3D Structure	ModBase 3D Structure for P03372
Species	Human
Route	Synthetic Peptide
Immunogen	A phospho specific peptide corresponding to residues surrounding S106 of human ESR1
Calculated Molecular Weight	66kDa
Product Categories/Family for anti-ESR1 antibody	Phosphorylation
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ESR1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-ESR1 antibody	WB: 1:500 - 1:2000 IHC: 1:50 - 1:100 IF: 1:100 - 1:200
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	MBS128301 is an antibody targeting ESR1. Also known as Phospho-ESR1-S106 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-ESR1 antibody
Western blot analysis of extracts from MCF7 cells, using Phospho-ESR1-S106 antibody.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% BSA.



Immunohistochemistry (IHC) of anti-ESR1 antibody
Immunohistochemistry of paraffin-embedded human breast carcinoma using Phospho-ESR1-S106 antibody.



Immunofluorescence (IF) of anti-ESR1 antibody
Immunofluorescence staining of methanol-fixed MCF-7 cells using Phospho-ESR1-S106 antibody.

ADDITIONAL DETAILS

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

NCBI GI #	544257
NCBI GeneID	2099
NCBI Accession #	P03372.2
UniProt Primary Accession #	P03372
UniProt Secondary Accession #	Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7
UniProt Related Accession #	P03372
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; 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; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha E1-E2-1-2; estrogen receptor alpha E1-N2-E2-1-2; nuclear receptor subfamily 3 group A member 1
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; integral to membrane; plasma 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: positive regulation of nitric oxide biosynthetic process; estrogen receptor signaling pathway; uterus development; signal transduction; response to estradiol stimulus; regulation of apoptosis; elevation of cytosolic calcium ion concentration; positive regulation of fibroblast proliferation; regulation of transcription, DNA-dependent; epithelial cell development; steroid hormone receptor signaling pathway; transcription initiation from RNA polymerase II promoter; transcription, DNA-dependent; positive regulation of nitric-oxide synthase activity; negative regulation of transcription factor 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; positive regulation of transcription from RNA polymerase II promoter; gene expression; steroid hormone mediated signaling; positive regulation of transcription factor activity; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating) Disease: Migraine With Or Without Aura, Susceptibility To, 1; Breast Cancer; Myocardial Infarction, Susceptibility To; Estrogen Resistance
Research Articles on ESR1	**1.** MiR-4728-3p regulates expression of estrogen receptor alpha.
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