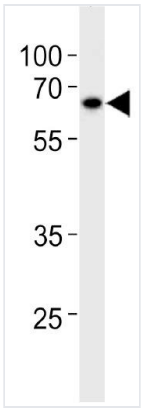
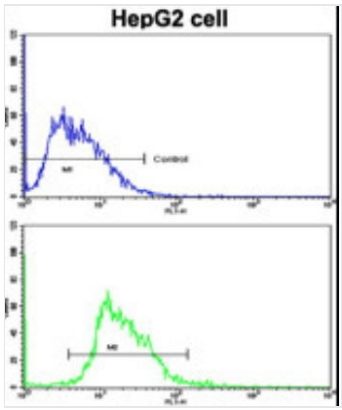
ESR2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ESR2, Polyclonal Antibody
Full Product Name	ESR2, ID (Estrogen Receptor beta, ER-beta, Nuclear Receptor Subfamily 3 Group A Member 2, NR3A2, ESTRB, ESR2) (MaxLight 650)
Product Gene Name	anti-ESR2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human ESR2. Expected to cross-react with bovine, chicken, porcine and rat due to sequence homology.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,209 Da
OMIM	601663
3D Structure	ModBase 3D Structure for Q92731
Immunogen	KLH-conjugated synthetic peptide corresponding to a portion of amino acids encompassed by aa 369-397 of human ESR2.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ESR2 antibody	Antibodies; Receptors; Estrogen
Applications Tested/Suitable for anti-ESR2 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-ESR2 antibody	FC/FACS: 1:10-1:50 FLISA: 1:1000 WB: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ESR2 antibody	MBS6474975 is an antibody targeting ESR2. Also known as ESR2, ID (Estrogen Receptor beta, ER-beta, Nuclear Receptor Subfamily 3 Group A Member 2, NR3A2, ESTRB, ESR2) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ESR2 antibody	1. Chen H., Lin R.J.Cell 90:569-580(1997). 2. Caira F., Antonson P.J. Biol. Chem. 275:5308-5317(2000). 3. Bu H., Kashireddy P.Biochem. Biophys. Res. Commun. 317:54-59(2004).
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.



Western Blot (WB) of anti-ESR2 antibody
Western blot analysis of MCF-7 cell line lysates (35ug/lane) usingMBS626994.



Flow Cytometry (FC/FACS) of anti-ESR2 antibody
Flow cytometric analysis of HepG2 cells using MBS626994 (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibody was used for the analysis.

ADDITIONAL DETAILS

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

NCBI GI #	10835013
NCBI GeneID	2100
NCBI Accession #	NP_001428
UniProt Primary Accession #	Q92731
UniProt Secondary Accession #	O60608; O60685; O60702; O60703; O75583; O75584; Q0MWT5; Q0MWT6; Q86Z31; A8K8K5; G3V5M5
UniProt Related Accession #	Q92731
GenBank Nucleotide #	NM_001437
NCBI Official Full Name	estrogen receptor beta isoform 1
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: ligand-dependent nuclear receptor activity; receptor antagonist activity; protein binding; 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; ovarian follicle development; regulation of transcription, DNA-dependent; steroid hormone mediated signaling; positive regulation of transcription factor activity; gene expression; brain development; negative regulation of cell growth; negative regulation of epithelial cell proliferation
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