

Rabbit ESR1 isoform1 Polyclonal Antibody | anti-ESR1 antibody

ESR1 isoform1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287528	Rabbit	Human (Predicted Reactivity: Mouse, Pig, Rat)	Immunofluorescence, ELISA, Western Blot

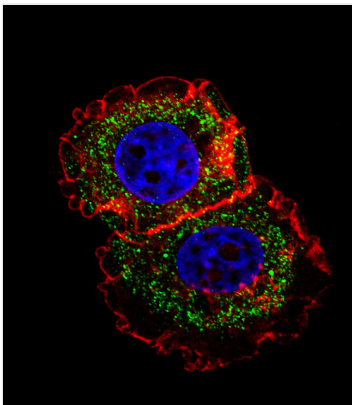
PRODUCT SYNONYMS

ESR1 isoform1; Polyclonal Antibody; ESR1 isoform1 Antibody (C-term); Estrogen receptor; ER; ER-alpha; Estradiol receptor; Nuclear receptor subfamily 3 group A member 1; ESR1; ESR; NR3A1; anti-ESR1 antibody

PRODUCT SPECIFICATIONS

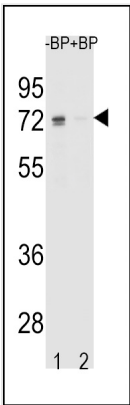
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Pig, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ESR1 isoform1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 452-480 amino acids from the C-terminal region of human ESR1 isoform1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	452-480
Sequence Length	312
Applicable Applications for anti-ESR1 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Fluorescent confocal image of MCF-7 cell stained with ESR1 isoform1 Antibody (C-term). MCF-7 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with ESR1 isoform1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). ESR1 isoform1 immunoreactivity is localized to cytoplasm significantly.



WB (Western Blot)

Western blot analysis of ESR1 isoform1 Antibody (C-term) Pab pre-incubated without (lane 1) and with (lane 2) blocking peptide in K562 cell line lysate. ESR1 isoform1 Antibody (C-term) (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

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.
Product Categories/Family for anti-ESR1 antibody	Cancer; Neuroscience; Signal transduction
References	Geradts, J., et al. Cancer Invest. 28(9):969-977(2010) Hayes, D.F., et al. Clin. Pharmacol. Ther. 88(5):626-629(2010) Lupien, M., et al. Genes Dev. 24(19):2219-2227(2010) Corbo, R.M., et al. J. Gerontol. A Biol. Sci. Med. Sci. (2010) In press : Kim, S., et al. Fertil. Steril. (2010) In press :

NCBI AND UNIPROT INFORMATION

NCBI GI #	62821794
NCBI GeneID	2099
NCBI Accession #	NP_000116.2; NP_001116212.1; NP_001116213.1; NP_001116214.1
NCBI GenBank Nucleotide #	NM_000125.3
UniProt Accession #	P03372; Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7
Molecular Weight	66216
NCBI Official Full Name	estrogen receptor isoform 1
NCBI Official Synonym Full Names	estrogen receptor 1

NCBI Official Symbol	ESR1
NCBI Official Synonym Symbols	ER; ESR; Era; ESRA; ESTRR; NR3A1
NCBI Protein Information	estrogen receptor
UniProt Protein Name	Estrogen receptor
UniProt Gene Name	ESR1
UniProt Synonym Gene Names	ESR; NR3A1; ER
UniProt Entry Name	ESR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/esr1-isoform1-antibody-immunofluorescence-western-blot-elisa/287528>