

anti-Human Estrogen receptor Antibody | anti-ESR1 antibody

Anti-Estrogen receptor [4E11]

CATALOG # AAA72408	REACTIVITY Human	APPLICATIONS ELISA
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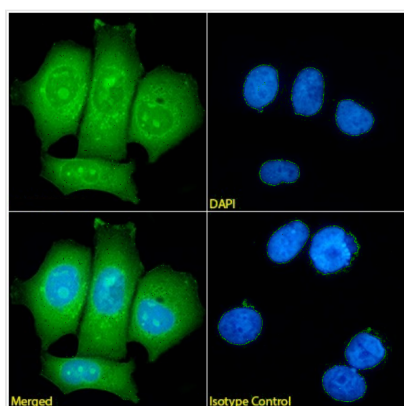
PRODUCT SYNONYMS

Estrogen receptor; Anti-Estrogen receptor [4E11]; ER; ERalpha36; ER-alpha36; hER-alpha36; ESR1; ER-alpha; NR3A1; Estradiol receptor; Nuclear receptor subfamily 3 group A member 1; ER-alpha Estradiol receptor; anti-ESR1 antibody

PRODUCT SPECIFICATIONS

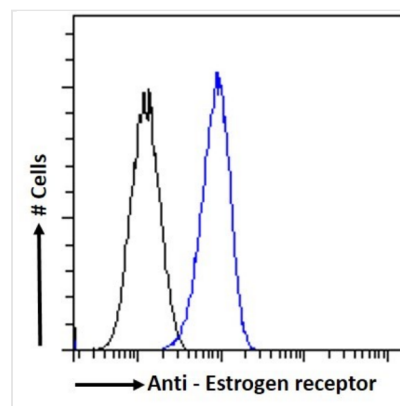
Reactivity	Human
Isotype	Rabbit IgG kappa
Clone Number	4E11
Specificity	The antibody is specific for estrogen receptor ER-alpha36. The estrogen receptor ER-alpha36 is an estrogen receptor subtype mainly expressed on the cell membrane; it mediates the non-genomic estrogen signal pathway, and can inhibit the traditional estrogen signal pathway. It plays a vital role in the occurrence and development of diseases. For example its expression level is closely related to some biological indicators of cancer.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ESR1 antibody	ELISA
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of MCF7 cells with anti-Estrogen receptor antibody 4E11. Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton, on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 4E11 (AAA72408) (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing nucleoli and cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, AAA72408, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



FCM/FACS (Flow Cytometry)

Flow cytometry using anti-Estrogen receptor antibody 4E11. Paraformaldehyde fixed MCF7 cells permeabilized with 0.5% Triton were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 4E11 (AAA72408, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000, and the cells were analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for anti-ESR1 antibody	The original antibody was generated by immunizing mice with estrogen receptor ER-alpha36. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format for improved compatibility with existing reagents assays and techniques.
Product Categories/Family for anti-ESR1 antibody	Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	62821794
NCBI GeneID	2099
NCBI Accession #	NP_000116.2
NCBI GenBank Nucleotide #	NM_000125.3
UniProt Accession #	P03372; Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7
Molecular Weight	66,216 Da
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; NR3A1
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; estrogen receptor alpha delta 4 +49 isoform; nuclear receptor subfamily 3 group A member 1; estrogen
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/human-antibody/estrogen-receptor/72408>