

Mouse anti-Human Estrogen Receptor, alpha Monoclonal Antibody | anti-ESR1 antibody

Estrogen Receptor, alpha (Marker of Estrogen Dependence)

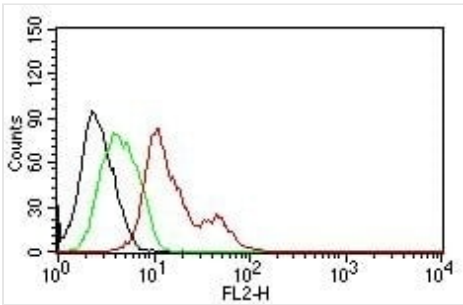
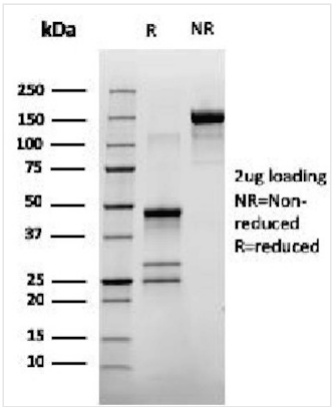
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62969	Mouse	Human	Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Estrogen Receptor; alpha; Monoclonal Antibody; alpha (Marker of Estrogen Dependence); Estrogen Receptor alpha delta 4*5; 6; 7*/654 isoform; Estrogen Receptor alpha delta 4 +49 isoform; Nuclear receptor subfamily 3 group A member 1; anti-ESR1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	ER506
Specificity	This MAb is specific to ER alpha and shows minimal cross-reaction with other members of the family. ER is an important regulator of growth and differentiation in the mammary gland. Presence of ER in breast tumors indicates an increased likelihood of response to anti-estrogen (e.g. tamoxifen) therapy. It strongly stains nuclei of epithelial cells in breast carcinomas.
Purity/Purification	Purified Ab conjugated to PE
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Sequence Length	595
Applicable Applications for anti-ESR1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant fragment (around aa 2-185) of human Estrogen Receptor alpha protein (exact sequence is proprietary)
Cellular Localization	Cell membrane, Cytoplasm, Golgi apparatus, Nucleus
Positive Control	T47D, MCF-7 cells. Breast or Endometrial Carcinoma.
Research Areas	Breast Cancer, Cancer, Cardiovascular, Infectious Disease, Ovarian Cancer, Signal Transduction, Transcription Factors
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Non-hazardous. No MSDS required.



FCM/FACS (Flow Cytometry)
Flow Cytometry for human ER-alpha on MCF-7 Cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled ER-alpha Monoclonal Antibody (ER506).

SDS-PAGE
SDS-PAGE Analysis of Purified Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/3373) (unconjugated). Confirmation of Integrity and Purity of Antibody

ADDITIONAL INFORMATION

References	Zafrani B, et. al. Histopathology 2000; 37(6), 536545. Harvey JM, et. al. Journal of Clinical Oncology 1999; 17(5), 14741481.
------------	---

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	~67kDa
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

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.