

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

Estrogen Receptor, alpha (Marker of Estrogen Dependence)

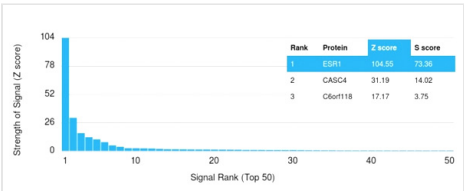
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214955	Mouse	Human	Immunohistochemistry

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

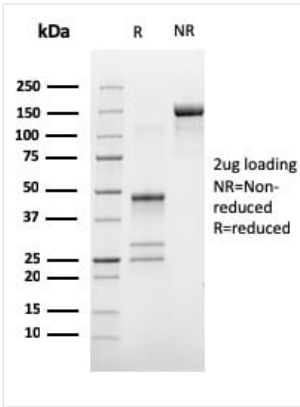
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	ESR1/3373
Specificity	This monoclonal antibody is specific to estrogen receptor alpha (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 with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
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. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	595
Applicable Applications for anti-ESR1 antibody	IHC (Immunohistochemistry)
Positive Control	MCF-7 cells. Breast or Endometrial Carcinoma.
Immunogen	Recombinant full-length human Estrogen Receptor alpha protein
Cellular Localization	Nuclear
Hu-chromosome Location	6q25.1
Preparation and Storage	Store at 2 to 8 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



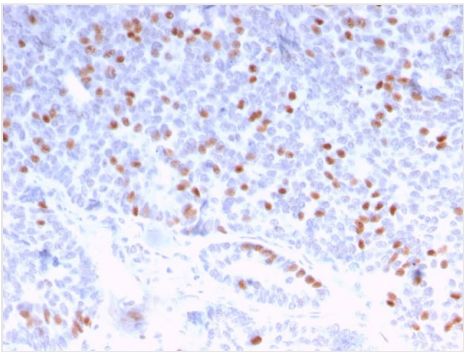
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/3373) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



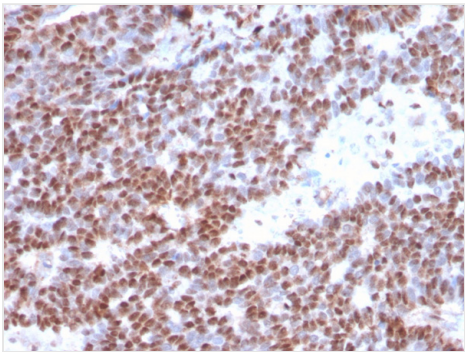
SDS_PAGE

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



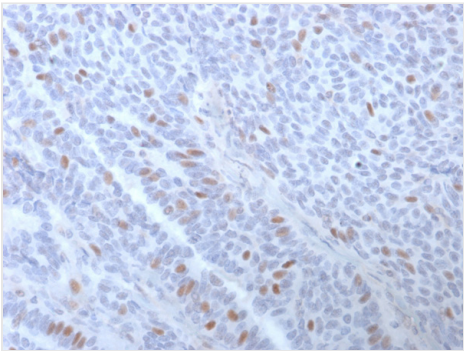
IHC (Immunohistochemisry)

Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/3373).



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ADDITIONAL INFORMATION

References	1. Harvey JM, et. al. Journal of Clinical Oncology 1999; 17(5), 1474-1481. 2. Zafrani B, et. al. Histopathology 2000; 37(6), 536-545.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62821794
NCBI GeneID	2099

NCBI Accession #	NP_000116.2
NCBI GenBank Nucleotide #	NP_000116.2
UniProt Accession #	P03372
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
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/monoclonal/estrogen-receptor-alpha-antibody-clone-esr1-3373-immunohistochemistry-elisa/214955>