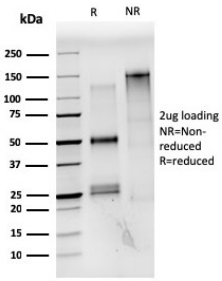
Anti-Estrogen Receptor alpha Antibody [ESR1/3559] (A248480)

Specifications:

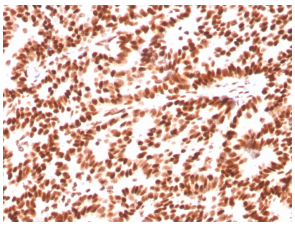
Name:	Anti-Estrogen Receptor alpha Antibody [ESR1/3559]
Description:	Mouse monoclonal [ESR1/3559] antibody to Estrogen Receptor alpha.
Specificity:	This antibody is specific to estrogen receptor alpha (ER alpha) and shows minimal cross-reaction with other members of the family. ER is an important regulator 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.
Applications:	Flow Cytometry, IHC-P
Recommended Dilutions:	Flow Cytometry: 1-2 µg/million cells, IHC-P: 1-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 129-312, of human ESR1 protein. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	ESR1/3559
Isotype:	IgG2b
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-Estrogen Receptor alpha Antibody [ESR1/3559] - BSA and Azide free (A251662).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

Anti-Estrogen Receptor alpha Antibody [ESR1/3559] (A248480)

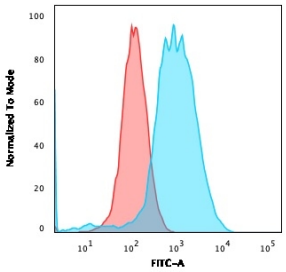
Images:



SDS-PAGE analysis of Anti-Estrogen Receptor alpha Antibody [ESR1/3559] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.



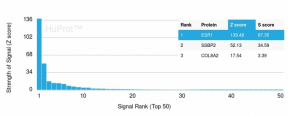
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human breast carcinoma using Anti-Estrogen Receptor alpha Antibody [ESR1/3559].



Flow cytometric analysis of MCF-7 cells using Anti-Estrogen Receptor alpha Antibody [ESR1/3559] followed by Goat Anti-Mouse IgG (CF® 488) (Blue). Isotype Control (Red).

Anti-Estrogen Receptor alpha Antibody [ESR1/3559] (A248480)

Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-Estrogen Receptor alpha Antibody [ESR1/3559]. Z-Score 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 be 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.