

### 36-2246: Anti-Estrogen Receptor, alpha (Marker of Estrogen Dependence) Monoclonal Antibody(Clone: ESR1/1904)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ESR1/1904
<b>Application :</b>	WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	ESR1
<b>Gene ID :</b>	2099
<b>Uniprot ID :</b>	P03372
<b>Alternative Name :</b>	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
<b>Isotype :</b>	Mouse IgG2a, kappa
<b>Immunogen Information :</b>	Recombinant full-length human Estrogen Receptor alpha protein

#### Description

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.

#### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/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.
<b>Storage condition :</b>	Store at 2 to 8°C. Antibody is stable for 24 months. Non-hazardous.

#### Application Note

Western Blot (1-2ug/ml); ,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

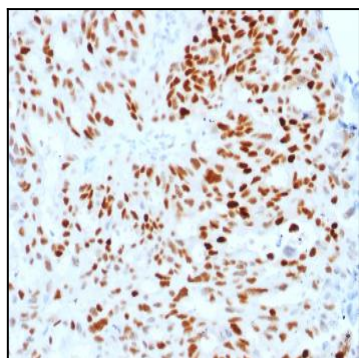


Fig. 1: Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/1904).

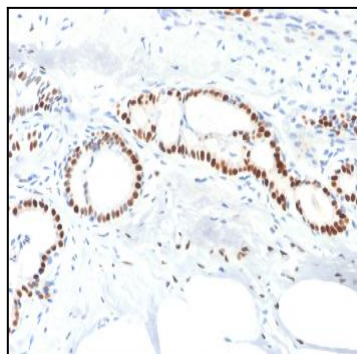


Fig. 2: Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/1904).

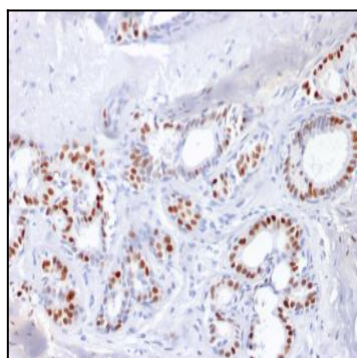


Fig. 3: Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/1904).

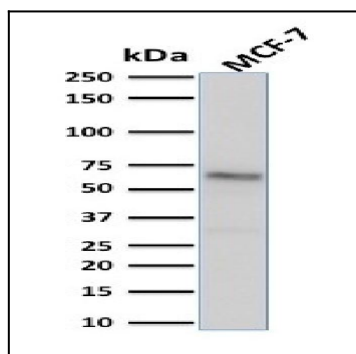


Fig. 4: Western Blot Analysis of human MCF-7 cell lysate using Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/1904).

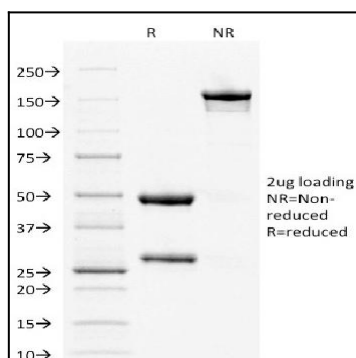


Fig. 5: SDS-PAGE Analysis Purified Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/1904). Confirmation of Purity and Integrity of Antibody.

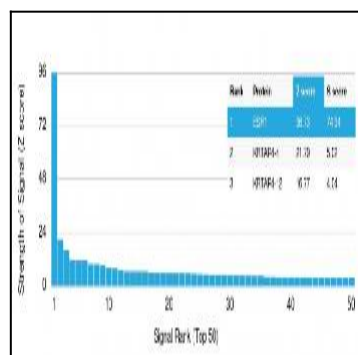


Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using Estrogen Receptor alpha Mouse Monoclonal Antibody (ESR1/1904) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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.