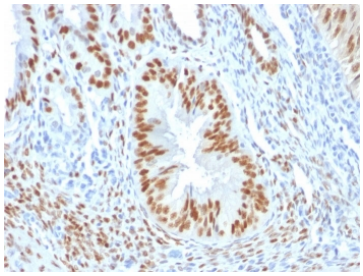
ER Antibody / Estrogen Receptor alpha [clone ER506] (V2113)

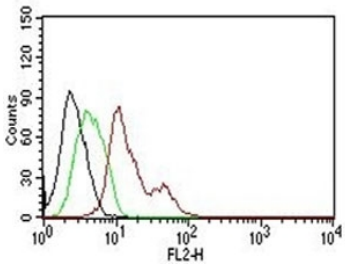
Catalog No.	Formulation	Size
V2113-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2113-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2113SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

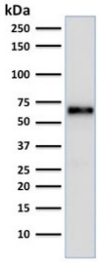
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	ER506
Purity	Protein G affinity chromatography
Gene ID	2099
Localization	Intracellular, Nuclear
Applications	Flow Cytometry : 1-2ug/10^6 cells Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml (1) Immunofluorescence : 1-3ug/ml
Limitations	This **ER antibody** is available for research use only.



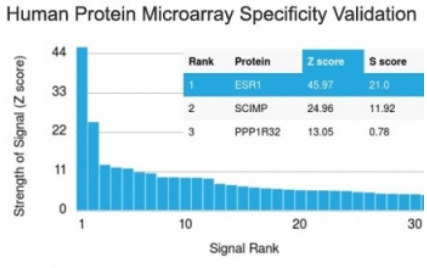
IHC testing of FFPE human endometrium with ER antibody (clone ER506).



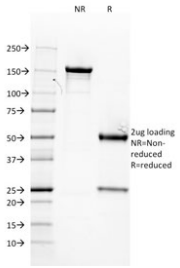
Intracellular FACS testing of human MCF-7 cells: Black=cells alone; Green=isotype control; Red= PE conjugated ER antibody (V2113PE)



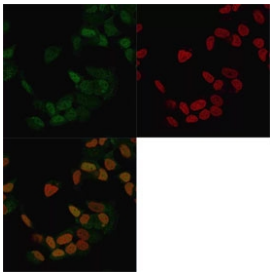
Western blot testing of MCF-7 cell lysate with ER antibody (clone ER506). Predicted molecular weight of ER alpha: ~67 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using ER antibody (clone ER506). These results demonstrate the foremost specificity of the ER506 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free ER antibody (clone ER506) as confirmation of integrity and purity.



Immunofluorescent staining of methanol-fixed human MCF7 cells with ER antibody (clone ER506, green) and Reddot nuclear stain (red).

Description

Estrogen receptor (ER) is an important regulator of growth and differentiation in the mammary gland. ER presence in breast tumors indicates an increased likelihood of response to anti-estrogen (e.g. tamoxifen) therapy. Clone ER506 antibody strongly stains nuclei of epithelial cells in breast carcinomas.

Application Notes

Variations in protocols, secondaries and substrates may require the ER antibody to be titered for optimal performance.

1. FFPE testing requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and cooling at RT for 20 minutes.

Immunogen

Recombinant human ER alpha protein (aa 2-185) was used as the immunogen.

Storage

Store the ER antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (2)