

Estrogen Receptor alpha Monoclonal Antibody (SP1)

Product Details

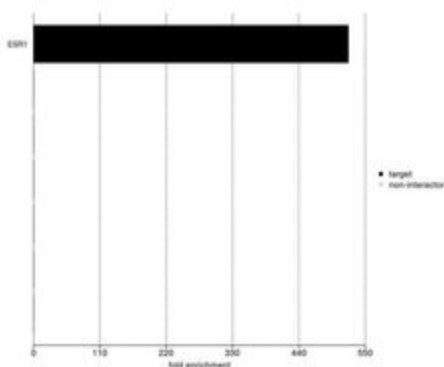
Size	500 µL
Species Reactivity	Human
Published Species	Rat, Virus, Sheep, Human, Mouse
Host/Isotope	Rabbit / IgG
Class	Monoclonal
Type	Antibody
Clone	SP1
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from C-terminal of human estrogen receptor
Form	Liquid
Purification	Protein A
Storage buffer	PBS, pH 7.6, with 1% BSA
Contains	0.1% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_10981779

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1:200	1 Publication
Immunocytochemistry (ICC)	1:25-1:250	7 Publications
Immunofluorescence (IF)	1:25-1:250	-
Immunohistochemistry (Frozen) (IHC (F))	1:100	-
Immunohistochemistry (Paraffin) (IHC (P))	1:200	26 Publications
Western Blot (WB)	1:1000	28 Publications
Dot blot (DB)	-	1 Publication
Immunohistochemistry (IHC)	-	204 Publications
Miscellaneous PubMed (Misc)	-	3 Publications

Product Specific Information

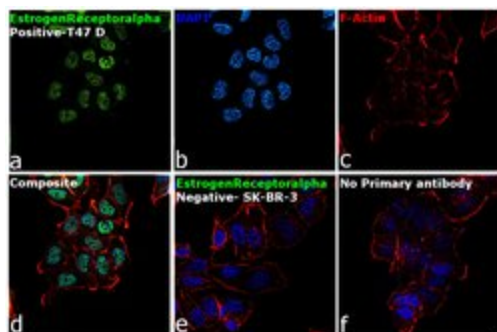
This antibody strongly stains the nucleus of epithelial cells in breast carcinomas. It reacts with ER alpha, 67 kDa. No special pretreatment is required for IHC staining.

Advanced Verification Data



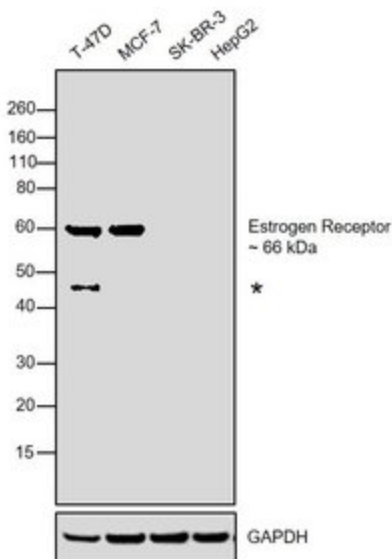
Estrogen Receptor alpha Antibody (MA5-14501)

IP-MS enrichment of ESR1 (LFQ intensity): ESR1 was enriched 522-fold from MCF7 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and ESR1 antibody (Product # MA5-14501). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. IP-MS validation info.



Estrogen Receptor alpha Antibody (MA5-14501)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Estrogen Receptor alpha Monoclonal Antibody (SP1) (Product # MA5-14501), shows positive Nuclear localization in T-47D when compared to SK-BR-3 cells. Relative expression validation info.



Estrogen Receptor alpha Antibody (MA5-14501)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines and tissues owing to their inherent genetic constitution. Relative expression of Estrogen Receptor alpha Monoclonal Antibody (AER311) was observed in T-47D and MCF-7 but not in SK-BR-3 and HepG2 which are reported to be negative using Estrogen Receptor alpha Monoclonal Antibody (SP1) (Product # MA5-14501) in Western Blot. Relative expression validation info.

View more figures on thermofisher.com

Immunohistochemistry (204)

BMC cancer

Association of uPA and PAI-1 tumor levels and 4G/5G variants of PAI-1 gene with disease outcome in luminal HER2-negative node-negative breast cancer patients treated with adjuvant endocrine therapy.

"MA5-14501 was used in Immunohistochemistry to demonstrate that both uPA and PAI-1 tumor tissue levels may have an influence on disease outcome in breast cancer patients treated with adjuvant endocrine therapy."

Authors: Jevri M, Mati IZ, Krivokua A, Ćori Crnogorac M, Besu I, Damjanovi A, Brankovi-Magi M, Milovanovi Z, Gavrilovi D, Susnjar S, Kisi Tepavevi D, Stanojkovi T

Species
Human

Dilution
1:200

Year
2019

Oncology letters

Cytoplasmic expression of estrogen receptor may predict poor outcome of EGFR-TKI therapy in metastatic lung adenocarcinoma.

"MA5-14501 was used in Immunohistochemistry to investigate the associations between ER/ER expression and EGFR mutational status and response to TKI treatment in metastatic lung adenocarcinoma."

Authors: Ding X, Li L, Tang C, Meng C, Xu W, Wei X, Guo Z, Zhang T, Fu Y, Zhang L, Wang X, Lin L, Liang J

Species
Human

Dilution
1:50

Year
2018

[View more IHC references on thermofisher.com](#)

Western Blot (28)

Biology of sex differences

Doxorubicin-induced cardiotoxicity is suppressed by estrous-staged treatment and exogenous 17-estradiol in female tumor-bearing spontaneously hypertensive rats.

"MA5-14501 was used in Western Blotting to demonstrate that oestrus staged treatments can alter the extent of cardiac damage caused by Doxorubicin in female spontaneously hypersensitive rats."

Authors: Pokrzywinski KL, Biel TG, Rosen ET, Bonanno JL, Aryal B, Mascia F, Moshkelani D, Mog S, Rao VA

Species
Human

Dilution
1:500

Year
2018

Journal of cellular biochemistry

UXT Is a LOX-PP Interacting Protein That Modulates Estrogen Receptor Alpha Activity in Breast Cancer Cells.

"MA5-14501 was used in western blot to study the interaction between UXT and LOX-PP"

Authors: Sánchez-Morgan N, Kirsch KH, Trackman PC, Sonenshein GE

Species
Human

Dilution
Not Cited

Year
2017

[View more WB references on thermofisher.com](#)

More applications with references on thermofisher.com

DB (1) IHC (P) (26) Flow (1) Misc (3) ICC (7)

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