Estrogen Receptor alpha Monoclonal Antibody (SP1)

Product Details	
Size	1 mL
Species	Human
Published Species	Rat, Virus, Sheep, Human, Mouse
Expression System	Rabbit / IgG
Class	Monoclonal
Type	Antibody
Clone	SP1
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from C-terminus of human estrogen receptor alpha
Form	Liquid
Concentration	1.05 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.6, with 1% BSA
Contains	0.1% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_10979688

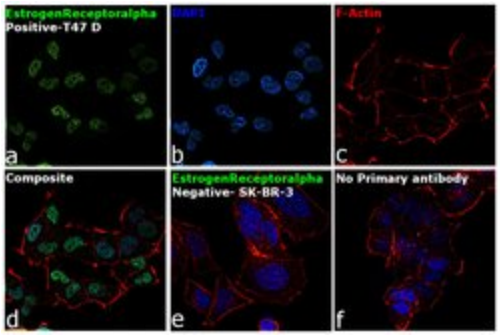
Applications	Tested Dilution	Publications
ChIP assay (ChIP)	5 µL/10^6 cells	-
Flow Cytometry (Flow)	1:200	1 Publication
Immunocytochemistry (ICC)	1:25-1:250	6 Publications
Immunofluorescence (IF)	1:25-1:250	-
Immunohistochemistry (Frozen) (IHC (F))	1:100	-
Immunohistochemistry (Paraffin) (IHC (P))	1:200	22 Publications
Western Blot (WB)	1:500	25 Publications
Dot blot (DB)	-	1 Publication
Immunohistochemistry (IHC)	-	195 Publications
Miscellaneous PubMed (Misc)	-	3 Publications

Product Specific Information

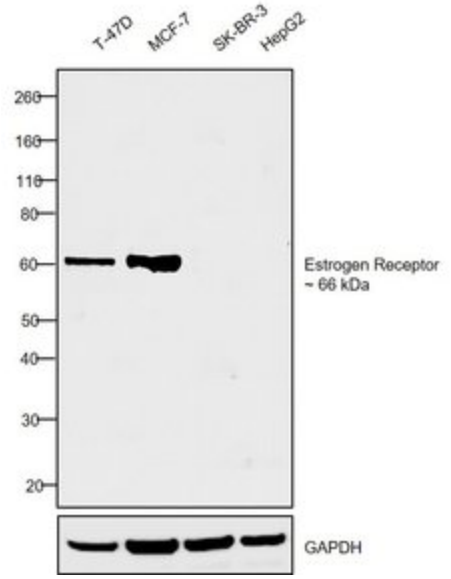
This antibody is predicted to react with porcine based on sequence homology.

Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 30 min at room temperature. A suggested positive control is breast carcinoma.

Advanced Verification Data

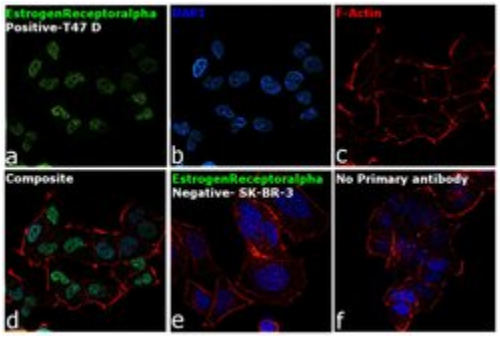


Estrogen Receptor alpha Antibody (MA1-39540)
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Estrogen Receptor alpha Monoclonal Antibody (SP1) (Product # MA1-39540), shows positive Nuclear localization in T-47D when compared to SK-BR-3 cells. Relative expression validation info.



Estrogen Receptor alpha Antibody (MA1-39540)
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 # MA1-39540) in Western Blot. Relative expression validation info.

Product Images For Estrogen Receptor alpha Monoclonal Antibody (SP1)



Estrogen Receptor alpha Antibody (MA1-39540) in ICC
Immunofluorescence analysis of Estrogen Receptor alpha was performed using 70% confluent log phase T-47D cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with beta Estrogen Receptor alpha Monoclonal Antibody (Product # MA1-39540) at 1:200 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents merged image for SK-BR-3 cells showing no staining for Estrogen Receptor alpha. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.com

253 References

Immunohistochemistry (Paraffin) (22)

ESMO open

Tumour and cellular distribution of activated forms of PR in breast cancers: a novel immunohistochemical analysis of a large clinical cohort.

"MA139540 was used in immunohistochemistry - paraffin section to examine the histological subnuclear morphology of active and inactive progesterone receptor in archival breast cancer samples"

Authors: Bonneterre J,Bosq J,Jamme P,Valent A,Gilles EM,Zukiwski AA,Fuqua SA,Lange CA,O'Shaughnessy J

Species Human

Dilution 1:500

Year 2019

Clinical cancer research : an official journal of the American Association for Cancer Research

High-Risk Premenopausal Luminal A Breast Cancer Patients Derive no Benefit from Adjuvant Cyclophosphamide-based Chemotherapy: Results from the DBCG77B Clinical Trial.

"MA139540 was used in immunohistochemistry - paraffin section to investigate the interaction between breast cancer subtype and treatment using data from a breast cancer trial randomizing women to adjuvant chemotherapy"

Authors: Nielsen TO,Jensen MB,Burugu S,Gao D,Jørgensen CL,Balslev E,Ejlertsen B

Species Human

Dilution Not Cited

Year 2017

View more IHC (P) references on thermofisher.com

Western Blot (25)

Nature communications

Profiling protein expression in circulating tumour cells using microfluidic western blotting.

"MA139540 was used in western blot to describe a microfluidic western blot for an eight-plex protein panel for individual circulating tumor cells derived from estrogen receptor-positive breast cancer patients"

Authors: Sinkala E,Sollier-Christen E,Renier C,Rosàs-Canyelles E,Che J,Heirich K,Duncombe TA,Vlassakis J, Yamauchi KA,Huang H,Jeffrey SS,Herr AE

Species Human

Dilution 1:10

Year 2017

Cell systems

Context Specificity in Causal Signaling Networks Revealed by Phosphoprotein Profiling.

"MA139540 was used in western blot to analyze the context specificity of signaling networks within a causal conceptual framework using reverse-phase protein array time-course assays and network analysis approaches"

Authors: Hill SM,Nesser NK,Johnson-Camacho K,Jeffress M,Johnson A,Boniface C,Spencer SE,Lu Y,Heiser LM, Lawrence Y,Pande NT,Korkola JE,Gray JW,Mills GB,Mukherjee S,Spellman PT

Species Human

Dilution Not Cited

Year 2017

View more WB references on thermofisher.com

More applications with references on thermofisher.com

DB (1) Flow (1) Misc (3) IHC (195) ICC (6)