

# Estrogen Receptor alpha Monoclonal Antibody (6F11)

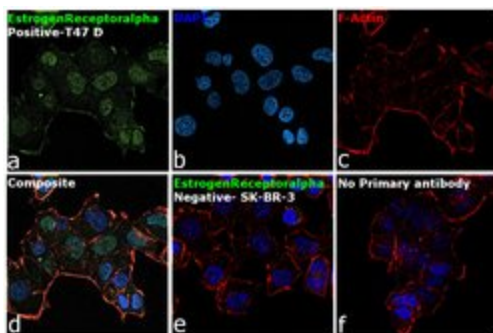
Product Details	
Size	250 µL
Species Reactivity	Human
Published Species	Rabbit, Rat, Cat, Human, Mouse
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	6F11
Conjugate	Unconjugated
Immunogen	Recombinant estrogen receptor protein (alpha form)
Form	Liquid
Concentration	1 mg/mL
Storage buffer	tissue culture supernatant
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_780508

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:100	1 Publication
Immunofluorescence (IF)	1:100	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1:40-1:60	-
Immunohistochemistry (Paraffin) (IHC (P))	1:40-1:80	7 Publications
Western Blot (WB)	1:50-1:500	3 Publications
Gel Shift (GS)	-	1 Publication
Immunohistochemistry (IHC)	-	23 Publications

## Product Specific Information

Paraffin sections require an antigen retrieval pretreatment with sodium citrate buffer (pH 6.0) prior to staining. Use Samboni's fixative for optimal staining results. Positive control of Breast carcinoma suggested.

## Advanced Verification Data

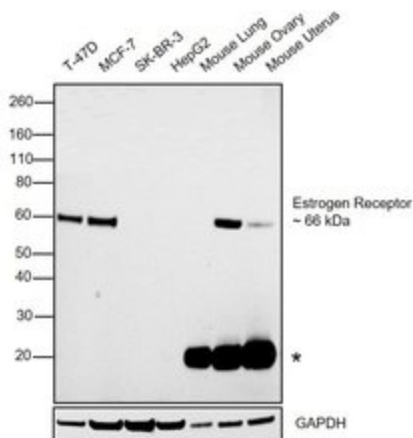


### Estrogen Receptor alpha Antibody (MA1-27107)

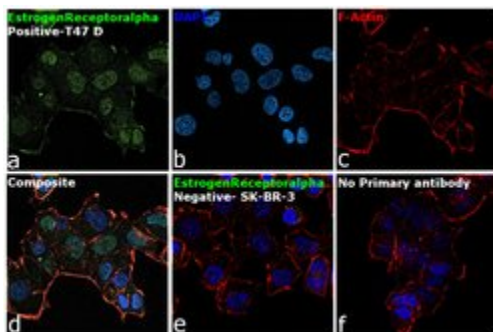
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Estrogen Receptor alpha Monoclonal Antibody (6F11) (Product # MA1-27107), shows positive Nuclear localization in T-47D when compared to SK-BR-3 cells. Relative expression validation info.

### Estrogen Receptor alpha Antibody (MA1-27107)

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 was observed in T47 D, MCF-7, Mouse Ovary and Mouse Uterus but not in SK-BR-3, HepG2 and Mouse Lung which are reported to be negative using Estrogen Receptor alpha Monoclonal Antibody (6F11) (Product # MA1-27107) in Western Blot. Relative expression validation info.



## Product Images For Estrogen Receptor alpha Monoclonal Antibody (6F11)



### Estrogen Receptor alpha Antibody (MA1-27107) 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 (6F11) (Product # MA1-27107) 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.

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## Immunofluorescence (1)

Journal of Alzheimer's disease : JAD

### A High-Cholesterol Diet Increases 27-Hydroxycholesterol and Modifies Estrogen Receptor Expression and Neurodegeneration in Rabbit Hippocampus.

"MA127107 was used in immunohistochemistry - frozen section and western blot to show that rabbits fed a high-cholesterol diet have higher levels of brain 27-hydroxycholesterol, increased levels of neurodegeneration in the hippocampus, changes in hippocampal estrogen receptor expression, and a decrease in hippocampal mitochondria"

Authors: Brooks SW,Dykes AC,Schreurs BG

**Species**  
Rabbit

**Dilution**  
1:200

**Year**  
2018

## Western Blot (3)

Journal of Alzheimer's disease : JAD

### A High-Cholesterol Diet Increases 27-Hydroxycholesterol and Modifies Estrogen Receptor Expression and Neurodegeneration in Rabbit Hippocampus.

"MA127107 was used in immunohistochemistry - frozen section and western blot to show that rabbits fed a high-cholesterol diet have higher levels of brain 27-hydroxycholesterol, increased levels of neurodegeneration in the hippocampus, changes in hippocampal estrogen receptor expression, and a decrease in hippocampal mitochondria"

Authors: Brooks SW,Dykes AC,Schreurs BG

**Species**  
Rabbit

**Dilution**  
1:200

**Year**  
2018

Nucleic acids research

### Unraveling the regulatory connections between two controllers of breast cancer cell fate.

"MA1-27107 was used in western blot to study the roles of ER-alpha and GATA3 in regulating the fate of breast cancer cells"

Authors: Lee J,Tiwari A,Shum V,Mills GB,Mancini MA,Igoshin OA,Balázsi G

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2014

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

## Immunohistochemistry (Paraffin) (7)

Oncotarget

### Serum HER2 levels are increased in cats with mammary carcinomas and predict tissue HER2 status.

"MA127107 was used in immunohistochemistry - paraffin section to develop an assay to measure serum HER2 in order to diagnose cats with mammary carcinomas"

Authors: Soares M,Ribeiro R,Najmudin S,Gameiro A,Rodrigues R,Cardoso F,Ferreira F

**Species**  
Cat

**Dilution**  
1:125

**Year**  
2016

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

## More applications with references on thermofisher.com

IHC (23)

GS (1)

ICC (1)

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