

# Estrogen Receptor alpha Monoclonal Antibody (1D5)

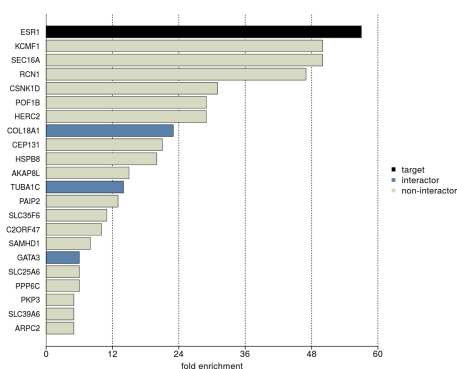
Product Details	
Size	500 µL
Species Reactivity	Human
Published Species	Rabbit, Rat, Cat, Mouse, Human, Chicken, Rhesus monkey, Guinea pig
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	1D5
Conjugate	Unconjugated
Immunogen	Recombinant human estrogen receptor protein
Form	Liquid
Concentration	0.8 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10986080

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-1.0 µg/mL	8 Publications
Immunohistochemistry (IHC)	-	57 Publications
Immunohistochemistry (Paraffin) (IHC (P))	0.4-0.8 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	1:500-1:1,000	4 Publications
Immunoprecipitation (IP)	-	1 Publication
in situ PLA (PLA)	-	1 Publication

## Product Specific Information

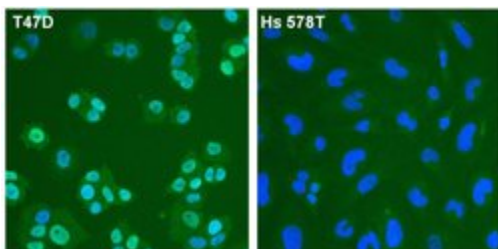
Staining of formalin-fixed, paraffin-embedded tissues requires boiling tissues in 10mM citrate buffer (pH 6.0) for 10-20 min, followed by cooling at room temperature for 20 min. A recommended positive control is MCF-7 cells. For optimal IF staining, it is recommended to fix and permeabilize cells with methanol.

## Advanced Verification Data



### Estrogen Receptor alpha Antibody (MA5-13191)

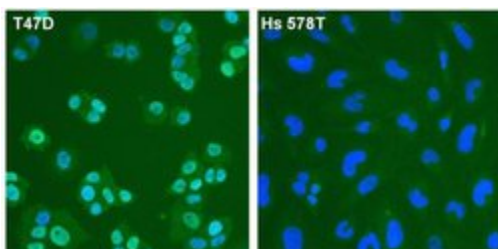
IP-MS enrichment of ESR1 (LFQ intensity): ESR1 was enriched 57-fold from MCF7 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and ESR1 antibody (Product # MA5-13191). The STRING database ([www.string-db.org](http://www.string-db.org)) 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 (MA5-13191)

The specificity of anti-ER alpha monoclonal antibody (Product # MA5-13191) was demonstrated in Immunofluorescence analysis by the detection of endogenous Estrogen Receptor Alpha protein in T47D cells, but not in negative control line Hs578T which is not known to express Estrogen Receptor Alpha protein. Relative expression validation info.

## Product Images For Estrogen Receptor alpha Monoclonal Antibody (1D5)



### Estrogen Receptor alpha Antibody (MA5-13191) in ICC/IF

Immunofluorescent analysis of Estrogen Receptor alpha (ER alpha, green) in T47D and Hs 578T breast cancer cells. The cells were fixed and permeabilized with ice-cold methanol for 10 minutes at room temperature, and blocked with 0.3% BSA in PBS for at least 30 minutes at room temperature. Cells were stained with an ER alpha monoclonal antibody (Product # MA5-13191) at a dilution of 1:750 in blocking buffer overnight at 4C, and then incubated with a DyLight 488-conjugated goat anti-mouse IgG secondary antibody (Product # 35502) at a dilution of 1:500 for at least 1 hour at room temperature. Nuclei (blue) were stained with DAPI (Product # 62247). Images were taken on a Thermo Scientific ToxInsight Instrument at 20X magnification.

[View more figures on thermofisher.com](http://thermofisher.com)

## Western Blot (8)

PLoS genetics

### Crucial role of estrogen for the mammalian female in regulating semen coagulation and liquefaction in vivo.

"Published figure using Estrogen Receptor alpha monoclonal antibody (Product # MA5-13191) in Western Blot"

Authors: Li S,Garcia M,Gewiss RL,Winuthayanon W

**Species**  
Human  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited  
Not Cited

**Year**  
2017

Endocrinology

### Developmental Programming: Insulin Sensitizer Prevents the GnRH-Stimulated LH Hypersecretion in a Sheep Model of PCOS.

"MA513191 was used in western blot to study the effects of prenatal testosterone on luteinizing hormone secretion in sheep."

Authors: Cardoso RC,Burns A,Moeller J,Skinner DC,Padmanabhan V

**Species**  
Human

**Dilution**  
1:500

**Year**  
2016

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

## Immunohistochemistry (57)

Reproduction (Cambridge, England)

### AMPK is required for uterine receptivity and normal responses to steroid hormones.

"MA5-13191 was used in Immunohistochemistry to investigate the role of 5'-AMP-activated protein kinase (AMPK) normal reproductive functions, including uterine receptivity and hormone response."

Authors: Griffiths RM,Pru CA,Behura SK,Cronrath AR,McCallum ML,Kelp NC,Winuthayanon W,Spencer TE,Pru JK

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

Journal of mammary gland biology and neoplasia

### Inter-Individual Variation in Response to Estrogen in Human Breast Explants.

"MA5-13191 was used in Immunohistochemistry to determine individual variation in expression of estrogen receptor (ER) and estrogen-induced responses in the normal human breast."

Authors: Dunphy KA,Black AL,Roberts AL,Sharma A,Li Z,Suresh S,Browne EP,Arcaro KF,Ser-Dolansky J,Bigelow C,Troester MA,Schneider SS,Makari-Judson G,Crisi GM,Jerry DJ

**Species**  
Human

**Dilution**  
1:20

**Year**  
2020

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

## More applications with references on thermofisher.com

IHC (P) (3)

ICC/IF (4)

IP (1)

PLA (1)

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