

Estrogen Receptor alpha Monoclonal Antibody (AER314)

Product Details	
Size	500 µL
Species Reactivity	Bovine, Human, Mouse, Rabbit, Rat
Published Species	Hamster, Bovine, Human, Mouse
Host/Isotype	Mouse / IgG1, lambda
Class	Monoclonal
Type	Antibody
Clone	AER314
Conjugate	Unconjugated
Immunogen	Purified, SDS-denatured calf uterus estrogen receptor (ER)
Form	Liquid
Concentration	0.2 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_10984048

Applications	Tested Dilution	Publications
Western Blot (WB)	1:100-1:400	5 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Immunoprecipitation (IP)	2 µg/mL	1 Publication
ChIP assay (ChIP)	-	4 Publications
Gel Shift (GS)	1 mg/mL	2 Publications

Product Specific Information

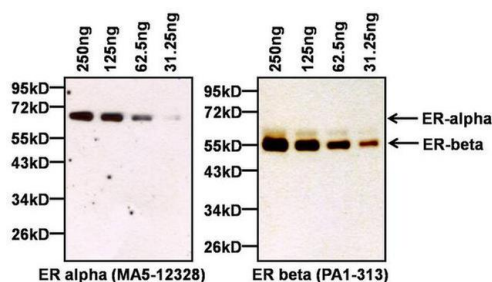
MA5-12328 targets Estrogen Receptor in WB, GS, and IP applications and shows reactivity with bovine, human, mouse, rabbit, and rat samples. By Western blot, MA5-12328 detects recombinant ER alpha, but may not be suitable for detection of endogenous protein.

The MA5-12328 immunogen is purified, SDS-denatured calf uterus estrogen receptor (ER).

Product Images For Estrogen Receptor alpha Monoclonal Antibody (AER314)

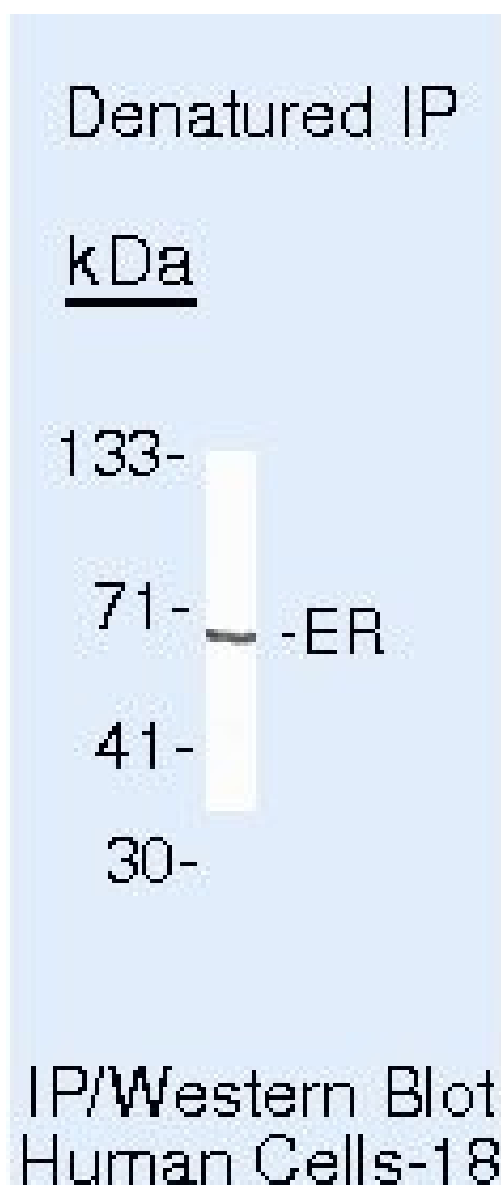
Estrogen Receptor alpha Antibody (MA5-12328) in WB

Western blot analysis of Estrogen Receptor (ER) was performed by loading the indicated amounts of recombinant full-length human ER alpha (Product # A15674) and ER beta (Product # A15664) proteins, and 10 µL of PageRuler Prestained Protein Ladder (Product # 26616) per well onto a Novex® 4-20% Tris-Glycine polyacrylamide gel. Proteins were transferred to a PVDF membrane (Product # 88518) using the G2 Blotter (Product # 62288), and blocked with 5% milk in TBST for at least 1 hour at room temperature. ER alpha was detected at ~66 kD (left panel) using an ER monoclonal antibody (Product # MA5-12328) at a dilution of 1:200 in blocking buffer overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-mouse IgG secondary antibody (Product # 31430) at a dilution of 1:40,000. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080). The blot was then stripped with Restore Plus Western blot stripping buffer (Product # 46430) for at least 15 minutes at room temperature, re-blocked with 5% milk in TBST for at least 1 hour at room temperature, and re-probed with an ER beta polyclonal antibody (Product # PA1-313, right panel) at a dilution of 1:2000 overnight at 4C, followed by an HRP-conjugated goat anti-rabbit IgG secondary antibody (Product # 31460) at a dilution of 1:40,000. Chemiluminescent detection was again performed using SuperSignal West Pico (Product # 34080).



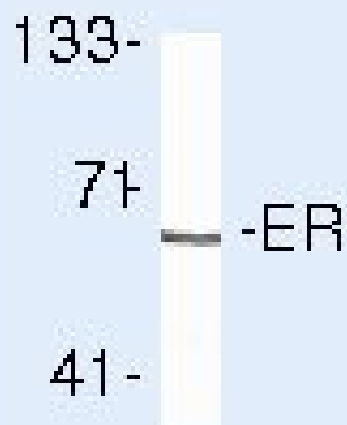
Estrogen Receptor alpha Antibody (MA5-12328) in IP

Immunoprecipitation of Estrogen Receptor using Estrogen Receptor Monoclonal Antibody (Product # MA5-12328) on denatured Human MCF-7 Cells.



Native IP

kDa



Estrogen Receptor alpha Antibody (MA5-12328) in IP

Immunoprecipitation of Estrogen Receptor using Estrogen Receptor Monoclonal Antibody (Product # MA5-12328) on Native Human T47D Cells.

IP / Western
Human Cells-30

Western Blot (5)

<p>Nature communications</p> <p>Targeting BIG3-PHB2 interaction to overcome tamoxifen resistance in breast cancer cells.</p> <p>"MA5-12328 was used in western blot to report that ERAP treatment suppresses tamoxifen resistance and enhances tamoxifen responsiveness in ERalpha-positive breast cancer cells"</p> <p>Authors: Yoshimaru T,Komatsu M,Matsuo T,Chen YA,Murakami Y,Mizuguchi K,Mizohata E,Inoue T,Akiyama M,Yamaguchi R,Imoto S,Miyano S,Miyoshi Y,Sasa M,Nakamura Y,Katagiri T</p>	<p>Year</p> <p>2014</p> <p>Species</p> <p>Mouse</p>
<p>Steroids</p> <p>Expression and subcellular distribution of native estrogen receptor beta in murine C2C12 cells and skeletal muscle tissue.</p> <p>"MA5-12328 was used in western blot to study the expression and subcellular distribution of estrogen receptor beta in murine C2C12 cells and skeletal muscle tissue"</p> <p>Authors: Milanesi L,Vasconsuelo A,de Boland AR,Boland R</p>	<p>Year</p> <p>2009</p> <p>Species</p> <p>Mouse</p>

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Immunohistochemistry (2)

<p>Reproductive biology and endocrinology : RB&E</p> <p>The effects of estrogen, its antagonist ICI 182, 780, and interferon-tau on the expression of estrogen receptors and integrin alphaV beta 3 on cycle day 16 in bovine endometrium.</p> <p>"MA5-12328 was used in immunohistochemistry to study the effects of estrogen and IFN-tau on the expression of estrogen receptors and integrin alphaV beta 3 in bovine endometrium"</p> <p>Authors: Kimmins S,Russell GL,Lim HC,Hall BK,MacLaren LA</p>	<p>Year</p> <p>2003</p> <p>Species</p> <p>Bovine</p>
<p>Biology of reproduction</p> <p>Occurrence of estrogen receptor alpha in bovine placentomes throughout mid and late gestation and at parturition.</p> <p>"MA5-12328 was used in immunohistochemistry to study the immunohistochemical expression of estrogen receptor-alpha in bovine placentomes"</p> <p>Authors: Schuler G,Wirth C,Teichmann U,Failing K,Leiser R,Thole H,Hoffmann B</p>	<p>Year</p> <p>2002</p> <p>Species</p> <p>Bovine</p>

More applications with references on thermofisher.cn

- ICC/IF (1)
- IP (1)
- ChIP (4)
- GS (2)

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