

bs-0116R**[Primary Antibody]****Bioss**
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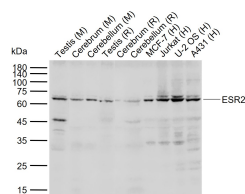
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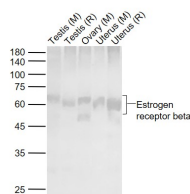
Estrogen receptor beta Rabbit pAb**DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 2100**SWISS:** Q92731**Target:** Estrogen receptor beta**Immunogen:** KLH conjugated synthetic peptide derived from human ER-beta: 201-300/530.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

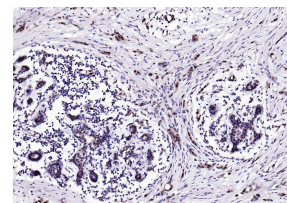
Background: This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17β-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. [provided by RefSeq, Jul 2008].

Applications: WB (1:500-2000)**IHC-P** (1:400-800)**IHC-F** (1:400-800)**IF** (1:100-500)**ICC/IF** (1:50-200)**ELISA** (1:5000-10000)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 58 kDa**Subcellular Location:** Nucleus**VALIDATION IMAGES**

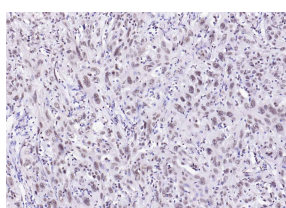
Sample: Lane 1: Mouse Testis tissue lysates
 Lane 2: Mouse Cerebrum tissue lysates
 Lane 3: Mouse Cerebellum tissue lysates
 Lane 4: Rat Testis tissue lysates
 Lane 5: Rat Cerebrum tissue lysates
 Lane 6: Rat Cerebellum tissue lysates
 Lane 7: Human MCF-7 cell lysates
 Lane 8: Human Jurkat cell lysates
 Lane 9: Human U-2 OS cell lysates
 Lane 10: Human A431 cell lysates
 Primary: Anti-ESR2 (bs-0116R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 58 kDa
 Observed band size: 63 kDa



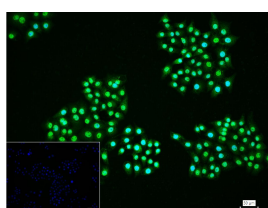
Sample: Lane 1: Testis (Mouse) Lysate at 40 ug
 Lane 2: Testis (Rat) Lysate at 40 ug
 Lane 3: Ovary (Mouse) Lysate at 40 ug
 Lane 4: Uterus (Rat) Lysate at 40 ug
 Primary: Anti-Estrogen receptor beta (bs-0116R) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 58 kD
 Observed band size: 58-62 kD



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ESR2 Polyclonal Antibody, Unconjugated (bs-0116R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded



4% Paraformaldehyde-fixed MCF-7 (H) cell;

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ESR2 Polyclonal Antibody, Unconjugated (bs-0116R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

Triton X-100 at r.t. for 20 min; Antibody incubation with (Estrogen Receptor beta) polyclonal Antibody, unconjugated (bs-0116R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

— SELECTED CITATIONS —

- **[IF=7.7]** Yuejie Yang. et al. Estrogen and glucocorticoid promote the lactoferrin synthesis and secretion ability of bovine mammary epithelial cells through ER and GR signaling pathways. INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. 2025 Feb 2;140636. Western Blot ;bovine. 39904446
- **[IF=7.2]** Yan Lyu. et al. 11-Ethoxyviburtinal improves chronic restraint stress-induced anxiety-like behaviors in gender-specific mice via PI3K/Akt and E2/ER β signaling pathways. PHYTOTHER RES. 2023 Jun;; IHC ;Mouse. 37300355
- **[IF=5.6]** Zihao Fang. et al. 17 β -Estradiol mediates TGFBR3/Smad2/3 signaling to attenuate the fibrosis of TGF- β 1-induced bovine endometrial epithelial cells via GPER. J CELL PHYSIOL. 2023 Nov;; IF ;Bovine. 37991438
- **[IF=4.561]** Rárová, et al. The novel brassinosteroid analog BR4848 inhibits angiogenesis in human endothelial cells and induces apoptosis in human cancer cells in vitro. (2018) The Journal of Steroid Biochemistry and Molecular Biology. 178:263-271. WB, ICC ;Human. 29307714
- **[IF=5.201]** Zhong Yuyi. et al. MIR143 Inhibits Steroidogenesis and Induces Apoptosis Repressed by H3K27me3 in Granulosa Cells. Front Cell Dev Biol. 2020 Oct;8:1159 WB ;Porcine. 33195195