bs-0174R **[Primary Antibody]**

Estrogen Receptor alpha + beta Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2099 **SWISS:** P03372

Target: Estrogen Receptor alpha + beta

Immunogen: KLH conjugated synthetic peptide derived from human Estradiol Receptor alpha + beta: 201-300/595.

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: Estrogen and progesterone receptor are members of a family of transcription factors that are regulated by the binding of their cognate ligands. The interaction of hormone-bound estrogen receptors with estrogen responsive elements(EREs) alters transcription of ERE-containing genes. The carboxy terminal region of the estrgen receptor contains the ligand binding domain, the amino terminus serves as the transactivation domain, and the DNA binding domain is centrally located. Two forms of estrogen receptor have been identified, ER Alpha and ER Beta. ER Alpha and ER Beta have been shown to be differentially activated by various ligands. The biological response to progesterone is mediated by two distinct forms of the human progesterone receptor (hPR-A and hPR-B), which arise from alternative splicing. In most cells, hPR-B functions as a transcriptional activator of progesterone-responsive gene, whereas hPR-A function as a transcriptional inhibitor of all steroid hormone receptors.

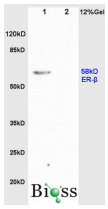
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)
ICC/IF (1:50-1:200)

Reactivity: Human, Rat
(predicted: Mouse, Pig)

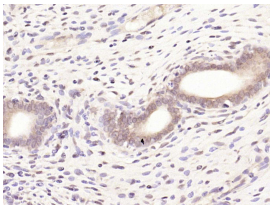
Predicted MW.: 66 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

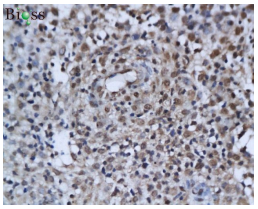
VALIDATION IMAGES



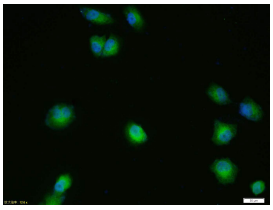
Protein: Brain(Rat) lysate at 30ug; Colon(Rat) lysates, 30ug; Primary: Anti-ER-alpha/beta (bs-0174R) at 1:200 Secondary: HRP conjugated Goat-Anti-Rabbit IgG(bse-0295G) at 1: 3000 Predicted band size : 58kD,66kD Observed band size : 58kD ER-alpha: 66kD; ER-beta: 58kD;



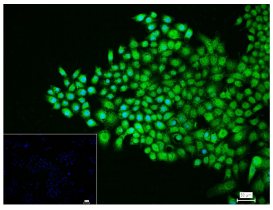
Paraformaldehyde-fixed, paraffin embedded (rat uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Estrogen Receptor alpha + beta) Polyclonal Antibody, Unconjugated (bs-0174R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



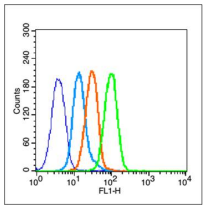
Tissue/cell: human endometrium tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-ER-alpha/beta Polyclonal Antibody, Unconjugated(bs-0174R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: HUVEC cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Estrogen Receptor alpha + beta) Polyclonal Antibody, Unconjugated (bs-0174R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



4% Paraformaldehyde-fixed MCF-7 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (Estrogen Receptor alpha + beta) polyclonal Antibody, unconjugated (bs-0174R) 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.



Blank control (blue line): MCF7 (blue). Primary Antibody (green line): Rabbit Anti-Estrogen Receptor alpha + beta antibody (bs-0174R) Dilution: 5µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol The cells were fixed with 80% ethanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 30 min on ice. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=5.81]** Wei W. et al. Apigenin, a Single Active Component of Herbal Extract, Alleviates Xerostomia via ERα-Mediated Upregulation of AQP5 Activation.. Front Pharmacol. 2022 Feb;13:818116-818116 IF ;Human. 35264956
- **[IF=5.256]** Jia M et al. A platform for primary tumor origin identification of circulating tumor cells via antibody cocktail-based in vivo capture and specific aptamer-based multicolor fluorescence imaging strategy. Analytica Chimica Acta.2019 July. Other ;Human. doi:10.1016/j.aca.2019.07.051
- **[IF=5.131]** Yu Tang. et al. hUMSCs Restore Uterine Function by Inhibiting Endometrial Fibrosis via Regulation of the MMP-9/TIMP-1 Ratio in CDDP-Induced Injury Rats. STEM CELLS INT. 2023;2023:8014052 IHC ;Rat. 36994440
- **[IF=4.147]** Francesca Salamanna. et al. Development and characterization of a novel human 3D model of bone metastasis from breast carcinoma in vitro cultured. Bone. 2021 Feb;143:115773 IHC ;Human. 33249322
- **[IF=3.6]** Tian Yanpeng. et al. Alternative Biological Material for Tissue Engineering of the Vagina: Porcine-Derived Acellular Vaginal Matrix. Tissue Engineering and Regenerative Medicine. 2023 Nov;:1-14 IHC,WB ;Pig. 37947984