bs-0122R **[Primary Antibody]**

Estrogen Receptor alpha Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2099 **SWISS:** P03372

Target: Estrogen Receptor alpha

Immunogen: KLH conjugated synthetic peptide derived from the middle of human Estrogen Receptor alpha: 331-360/595.

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.

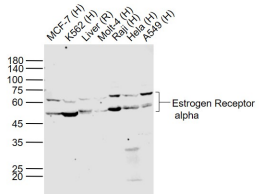
Applications: **WB** (1:500-2000)
ICC/IF (1:50-1:200)

Reactivity: Human, Rat (predicted: Mouse, Rabbit, Cow, Dog)

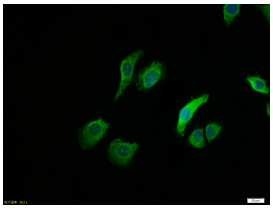
Predicted MW.: 67 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

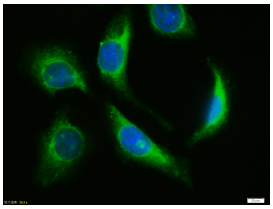
VALIDATION IMAGES



Sample: Lane 1: MCF-7 (Human) Cell Lysate at 30 ug Lane 2: K562 (Human) Cell Lysate at 30 ug Lane 3: Liver (Rat) Lysate at 40 ug Lane 4: Molt-4 (Human) Cell Lysate at 30 ug Lane 5: Raji (Human) Cell Lysate at 30 ug Lane 6: Hela (Human) Cell Lysate at 30 ug Lane 7: A549 (Human) Cell Lysate at 30 ug Primary: Anti-Estrogen Receptor alpha (bs-0122R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 67 kD Observed band size: 62/50 kD



Tissue/cell:MCF7 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) polyclonal Antibody, Unconjugated (bs-0122R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



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SELECTED CITATIONS

- **[IF=5.6]** Zihao Fang. et al. 17β-Estradiol mediates TGFBR3/Smad2/3 signaling to attenuate the fibrosis of TGF-β1-induced bovine endometrial epithelial cells via GPER. J CELL PHYSIOL. 2023 Nov;: IF ;Bovine. 37991438

- **[IF=2.534]** EnShuang Xu. et al. Establishment and transcriptome characterization of tamoxifen-resistant canine mammary gland tumor cells. Res Vet Sci. 2022 Feb;: WB ;Dog. 35193047
- **[IF=1.85]** Zhou, Dawei, et al. "Estrogen receptor alpha is essential for the proliferation of prostatic smooth muscle cells stimulated by 17???\estradiol and insulin?\like growth factor 1."ll biochemistry and function 29.2 (2011): 120-125.... WB ;="Mouse". 21287577