bs-0254R **[Primary Antibody]**

Estrogen receptor alpha Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2099 **SWISS:** P03372

Target: Estrogen receptor alpha

Immunogen: KLH conjugated synthetic peptide derived from human ER-Alpha: 501-595/595.

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.

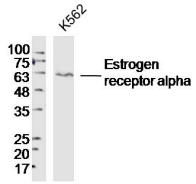
Applications: **WB** (1:500-2000)
Flow-Cyt (1μg/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse

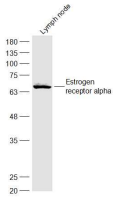
Predicted MW.: 66 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

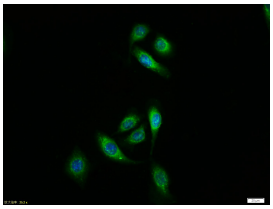
VALIDATION IMAGES



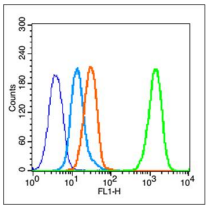
Sample:K562 (Human)Cell Lysate at 40 ug Primary: Anti-Estrogen receptor alpha(bs-0254R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 66kD Observed band size: 63kD



Sample: Lymph node (Mouse) Lysate at 40 ug Primary: Anti-Estrogen receptor alpha (bs-0254R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 66 kD Observed band size: 66 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-0254R) 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.



Blank control (blue line): MCF7 (blue). Primary Antibody (green line): Rabbit Anti-Estrogen receptor alpha antibody (bs-0254R) Dilution: 1µg /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=6.081]** Yi-Shin Wu. et al. 7,7″-Dimethoxyagastisflavone Inhibits Proinflammatory Cytokine Release and Inflammatory Cell Recruitment through Modulating ERα Signaling. Biomedicines. 2021 Dec;9(12):1778 WB ;Mouse. 34944595
- **[IF=6.208]** Young-Hwan Ban. et al. Effectiveness of Combinational Treatments for Alzheimer’ s Disease with Human Neural Stem Cells and Microglial Cells Over-Expressing Functional Genes. INT J MOL SCI. 2023 Jan;24(11):9561 ICC,IHC ;Mouse，Human. 37298510