
Estrogen Receptor alpha Rabbit pAb

Catalog Number: bs-0725R

Target Protein: Estrogen Receptor alpha

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (0.2g/Test)

Reactivity: Human, Mouse, Rat

Predicted MW: 67 kDa

Entrez Gene: 13982

Swiss Prot: P19785

Source: KLH conjugated synthetic peptide derived from mouse ER-alpha: 501-600/600.

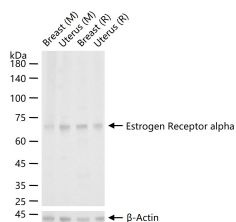
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

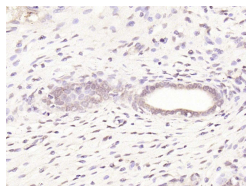
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

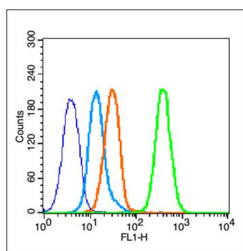
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with Estrogen Receptor alpha polyclonal antibody, unconjugated (bs-0725R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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) Polyclonal Antibody, Unconjugated (bs-0725R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (blue line); MCF7 (blue). Primary Antibody (green line): Rabbit Anti-Estrogen Receptor alpha antibody (bs-0725R) Dilution: 0.2µg /10⁶ 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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.28] Zuo, Zhenghong, et al. "Chronic Exposure to Tributyltin Chloride Induces Pancreatic Islet cell Apoptosis and Disrupts Glucose Homeostasis in male mice." *Environmental Science & Technology* (2014). WB ; ="Mouse" . 24693970

[IF=5.168] Yudong Yin. et al. (4-Picolylamino)-17β-Estradiol derivative and analogues induce apoptosis with death receptor trail R2/DR5 in MCF-7. *CHEM-BIOL INTERACT.* 2022 Nov;;110286 IHC ; Human . 36460128

[IF=5.116] Jia-Hua Zhenget al. Quantification of the CM-Dil-labeled Human umbilical cord mesenchymal stem cells migrated to the dual injured uterus in SD rat. *Stem Cell Res Ther.* . 2020 Jul 13;11(1):280. Other ; . 32660551

[IF=3.43] Ye, Zonghuang, et al. "Electrochemical biosensor for the nuclear factor kappa B using a gold nanoparticle-assisted dual signal amplification method." *Microchimica Acta* (2013): 1-7. Other ; =" " . 10.1007/s00604-013-1080-x

[IF=3.192] Yuan, Jie. et al. Comparison of the efficacy of gossypol acetate enantiomers in rats with uterine leiomyoma. *J NAT MED-TOKYO.* 2022 Aug;;1-12 IHC ; Rat . 35984592