SunLong Biotech Co.,LTD
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Rabbit Anti-Estrogen receptor beta antibody

SL0116R

Product Name	Estrogen receptor beta
Chinese Name	雌激素受体 β 抗体
Alias	Estrogen receptor-beta; Estrogen receptor beta; ER BETA; ER-BETA; ER-beta; Erb; ESR 2; ES ESR-B; ESR BETA; ESR-BETA; ESR2; ESR2; ESR2_HUMAN; ESRB; ESTRB; estrogen nuc beta variant a; estrogen nuclear receptor beta variant b; estrogen receptor 2 (ER beta); Estrogen Estrogen Receptor-2; estrogen receptor beta 4; NR3A2; Nuclear receptor subfamily 3 group A m
Research Area	Tumour
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human Mouse Rat
Applications	WB=1:500-2000,IHC-P=1:400-800,IHC-F=1:400-800,ICC/IF=1:50-200,IF=1:100-500,ELISA= （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	58kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human ER-beta: 201-300/530
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and 50% G
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d applications.

PubMed PubMed

This gene encodes a member of the family of estrogenreceptors and superfamily of nuclear recep transcriptionfactors. The gene product contains an N-terminal DNA binding domainand C-termi binding domain and is localized to thenucleus, cytoplasm, and mitochondria. Upon binding to17 or related ligands, the encoded protein formshomo- or hetero-dimers that interact with specific D toactivate transcription. Some isoforms dominantly inhibit theactivity of other estrogen receptor members. Severalalternatively spliced transcript variants of this gene have beendescribed, but th nature of some of these variants hasnot been fully characterized. [provided by RefSeq, Jul 2008]

Product Detail

Function:
Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulati eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues.

Subunit:
Interacts with SLC30A9 (By similarity). Binds DNA as a homodimer. Can form a heterodimer w Interacts with NCOA3, NCOA5 and NCOA6 coactivators, leading to a strong increase of transcri genes. Interacts with NCOA7 in a ligand-inducible manner. Interacts with PHB2, PELP1 and UB with AKAP13. Interacts with CUEDC2. Interacts with KDM5A. Interacts with SMARD1. Intera HEXIM1 and MAP1S. Interacts with PBXIP1. Interaction with MUC1 is stimulated by 7 beta-es and enhances ERS1-mediated transcription. Interacts with DNTTIP2, FAM120B and UIMC1. In isoform 4 of TXNRD1. Interacts with MLL2. Interacts with ATAD2 and this interaction is enha estradiol.

Subcellular Location:
Nucleus.

Post-translational modifications:
Phosphorylated by cyclin A/CDK2. Phosphorylation probably enhances transcriptional activity. Glycosylated; contains N-acetylglucosamine, probably O-linked.

Similarity:
Belongs to the nuclear hormone receptor family. NR3 subfamily.
Contains 1 nuclear receptor DNA-binding domain.

SWISS:
Q92731

Gene ID:
2100

Database links:

Entrez Gene: 2100 Human

Entrez Gene: 13983 Mouse

Entrez Gene: 25149 Rat

Omim: 601663 Human

SwissProt: Q92731 Human

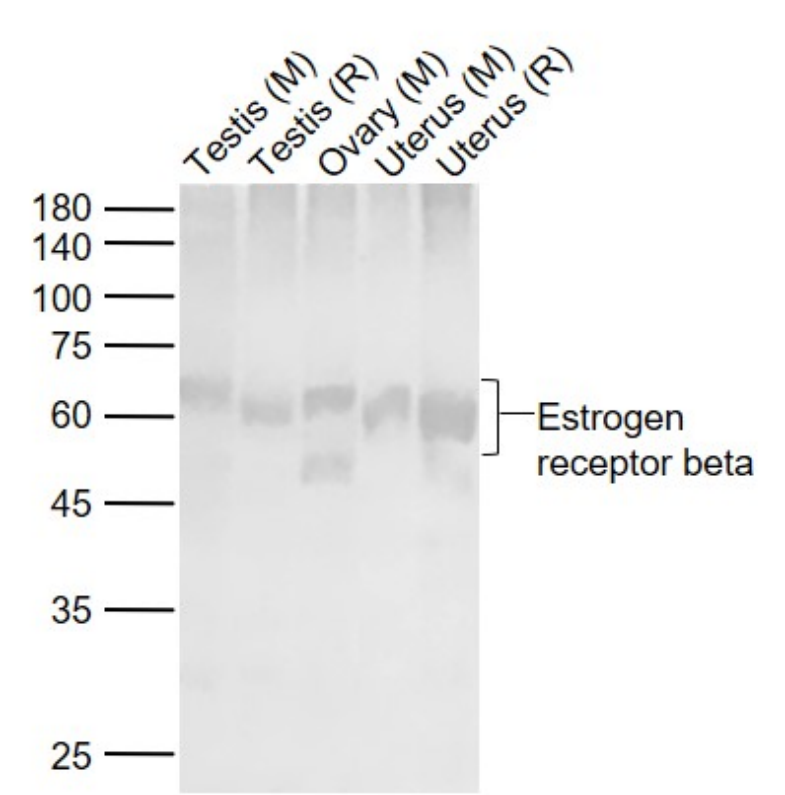
SwissProt: O08537 Mouse

SwissProt: Q62986 Rat

Unigene: 660607 Human

类固醇受体（Steroid Receptors）

Product Picture



Sample:

Lane 1: Testis (Mouse) Lysate at 40 ug

Lane 2: Testis (Rat) Lysate at 40 ug

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Lane 3: Ovary (Mouse) Lysate at 40 ug

Lane 4: Uterus (Mouse) Lysate at 40 ug

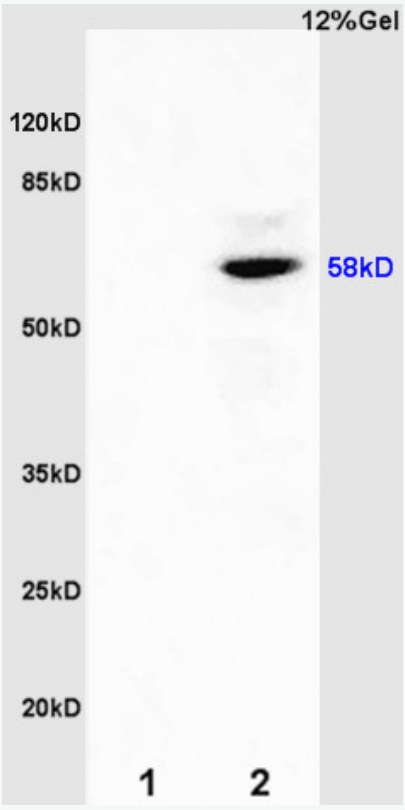
Lane 5: Uterus (Rat) Lysate at 40 ug

Primary: Anti-Estrogen receptor beta (SL0116R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55-59 kD

Observed band size: 58-62 kD



Sample:

Kidney(Mouse) lysate at 30ug;

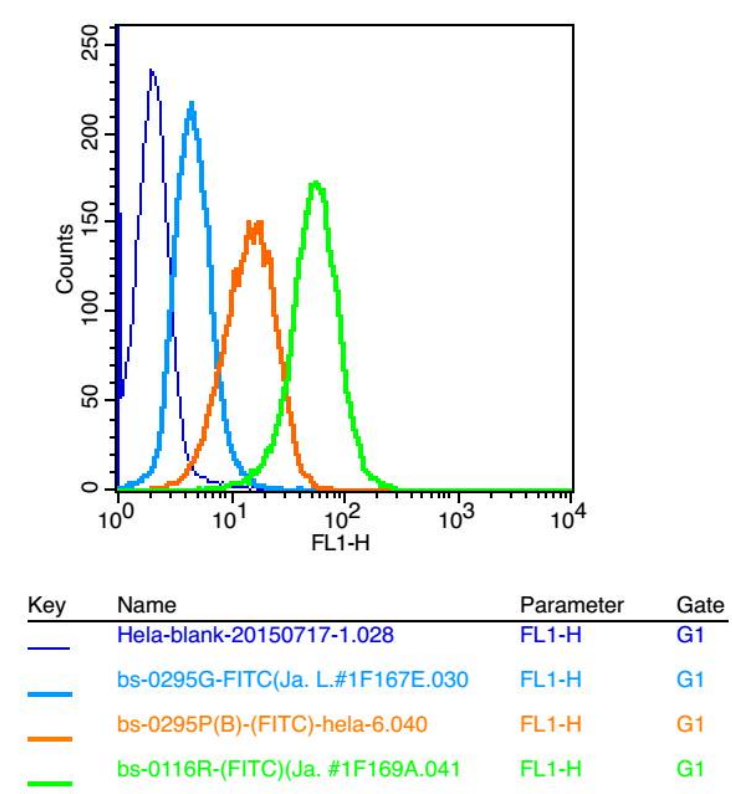
Brain(Rat) lysate at 30ug;

Primary: Anti-ER-beta (SL0116R) at 1:200;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0295G-HRP) at 1: 3000;

Predicted band size : 58kD

Observed band size : 58kD



Key	Name	Parameter	Gate
	Hela-blank-20150717-1.028	FL1-H	G1
	bs-0295G-FITC(Ja. L.#1F167E.030	FL1-H	G1
	bs-0295P(B)-(FITC)-hela-6.040	FL1-H	G1
	bs-0116R-(FITC)(Ja. #1F169A.041	FL1-H	G1

Positive control: Hela

Isotype Control Antibody: Rabbit IgG ; Secondary Antibody: Goat anti-rabbit IgG-FITC, Dilut

1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 3µg in 100 µL1X PBS containing

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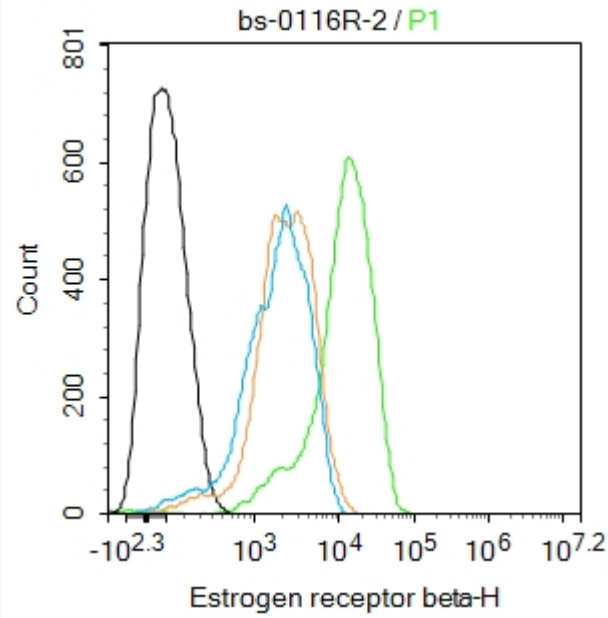

Blank control: A431.

Primary Antibody (green line): Rabbit Anti-Estrogen receptor beta antibody (SL0116R)

Dilution: 2ug/Test;

Secondary Antibody : Goat anti-rabbit IgG-FITC

Dilution: 0.5ug/Test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 9

methanol for 20 min at -20℃.The cells were then incubated in 5%BSA to block non-specific

protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibo

min at room temperature. The secondary antibody used for 40 min at room temperature. Acqu

20,000 events was performed.