SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Estrogen Related Receptor gamma antibody

Catalog Number: SL6213R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Estrogen Related Receptor gamma
Immunogen:	KLH conjugated synthetic peptide derived from human ESRRG/Estrogen Related Receptor gamma: 61-160/458
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.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Rabbit,Sheep)
Predicted MW.:	51kDa
Subcellular Location:	The nucleus
Background:	This gene encodes a member of the estrogen receptor-related receptor (ESRR) family, which belongs to the nuclear hormone receptor superfamily. All members of the ESRR family share an almost identical DNA binding domain, which is composed of two C4-type zinc finger motifs. The ESRR members are orphan nuclear receptors; they bind to the estrogen response element and steroidogenic factor 1 response element, and activate genes controlled by both response elements in the absence of any ligands. The ESRR family is closely related to the estrogen receptor (ER) family. They share target genes, co-regulators and promoters, and by targeting the same set of genes, the ESRRs seem to interfere with the ER-mediated estrogen response in various ways. It has been reported that the family member encoded by this gene functions as a transcriptional activator of DNA cytosine-5-methyltransferases 1 (Dnmt1) expression by direct binding to its response elements in the DNMT1 promoters, modulates cell proliferation and estrogen

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	signaling in breast cancer, and negatively regulates bone morphogenetic protein 2-induced osteoblast differentiation and bone formation. Multiple alternatively spliced transcript variants have been identified, which mainly differ at the 5' end and some of which encode protein isoforms differing in the N-terminal region. **Function:** Orphan receptor that acts as transcription activator in the absence of bound ligand. Binds specifically to an estrogen response element and activates reporter genes controlled by estrogen response elements **Subunit:** Homodimer. Binds TLE1, PNRC1 and PNRC2. Binds GRIP1 (By similarity). Interacts with NRIP1, NCOA1 and NCOR2. **Subcellular Location:** Nucleus **Tissue Specificity:** Expressed in the heart, kidney, brain, lung, bone marrow, adrenal gland, trachea, spinal cord and thyroid gland. **Post-translational modifications:** Sumoylation on Lys-40 is enhanced by phosphorylation at Ser-45 and represses transcriptional activity. Phosphorylation on Ser-45 enhances sumoylation on Lys-40 thus repressing transcriptional activity. **Similarity:** Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain. **Database links:** **Entrez Gene:** 536732 Cow **Entrez Gene:** 2104 Human **Entrez Gene:** 26381 Mouse **Entrez Gene:** 360896 Rat **Entrez Gene:** 405890 Zebrafish Omim: 602969 Human **SwissProt:** P62508 Human **SwissProt:** P62509 Mouse **SwissProt:** P62510 Rat **Unigene:** 444225 Human **Unigene:** 388156 Mouse **Unigene:** 89989 Mouse **Unigene:** 214491 Rat

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[VALIDATION IMAGES]

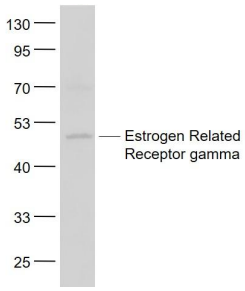


Figure 1. Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti- Estrogen Related Receptor gamma (SL6213R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 51 kD

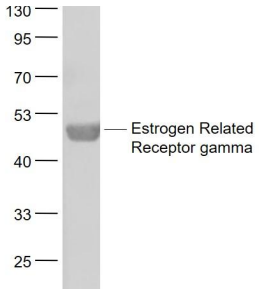


Figure 2. Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti- Estrogen Related Receptor gamma (SL6213R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 51 kD

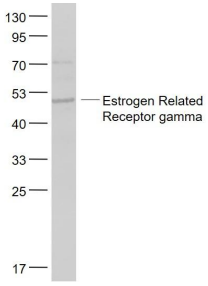


Figure 3. Sample: Cerebrum (Rat) Lysate at 40 ug Primary: Anti- Estrogen Related Receptor gamma (SL6213R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 51 kD

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