



## Rabbit Anti-ROR Gamma antibody

SL3863R

|                               |  |
|-------------------------------|--|
| <b>Product Name:</b>          | ROR Gamma  |
| <b>Chinese Name:</b>          | 孤儿核受体抗体  |
| <b>Alias:</b>                 | ROR Gamma; NR1F3; Nuclear receptor ROR gamma; Nuclear receptor ROR-gamma; Nuclear receptor RZR gamma; Nuclear receptor RZR-gamma; Nuclear receptor subfamily 1 group F member 3; RAR related orphan receptor C; RAR related orphan receptor C, isoform a; RAR related orphan receptor gamma; Retinoic acid binding receptor gamma; Retinoid related orphan receptor gamma; Retinoid-related orphan receptor-gamma; Rorc; RORG; RZR GAMMA; RZRG; TOR; RORG HUMAN. |
| <b>Organism Species:</b>      | Rabbit   |
| <b>Clonality:</b>             | Polyclonal   |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,  |
| <b>Applications:</b>          | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testIF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.  |
| <b>Molecular weight:</b>      | 57kDa  |
| <b>Cellular localization:</b> | The nucleus  |
| <b>Form:</b>                  | Lyophilized or Liquid  |
| <b>Concentration:</b>         | 1mg/ml   |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human ROR Gamma:81-140/518   |
| <b>Lsotype:</b>               | IgG  |
| <b>Purification:</b>          | affinity purified by Protein A   |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.   |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.  |
| <b>PubMed:</b>                | <a href="#">PubMed</a>   |
| <b>Product Detail:</b>        | The protein encoded by this gene is a DNA-binding transcription factor and is a member of the NR1 subfamily of nuclear hormone receptors. The specific functions of this   |

protein are not known; however, studies of a similar gene in mice have shown that this gene may be essential for lymphoid organogenesis and may play an important regulatory role in thymopoiesis. In addition, studies in mice suggest that the protein encoded by this gene may inhibit the expression of Fas ligand and IL2. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008].

**Function:**

Possible nuclear receptor for hydroxycholesterols, the binding of which strongly promotes coactivators recruitment. Essential for thymopoiesis and the development of several secondary lymphoid tissues, including lymph nodes. Involved in lineage specification of uncommitted CD4(+) T helper cells into Th17 cells. Regulate the expression of several components of the circadian clock.

**Subcellular Location:**

Nucleus (Probable).

**Tissue Specificity:**

Isoform 1: widely expressed in many tissues, including liver and adipose, and highly expressed in skeletal muscle. Isoform 2: Primarily expressed in immature thymocytes.

**Similarity:**

Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.

**SWISS:**

P51449

**Gene ID:**

6097

**Database links:**

[Entrez Gene: 6097](#)Human

[Entrez Gene: 19885](#)Mouse

[Entrez Gene: 368158](#)Rat

[Omim: 602943](#)Human

[SwissProt: P51449](#)Human

[SwissProt: P51450](#)Mouse

[Unigene: 256022](#)Human

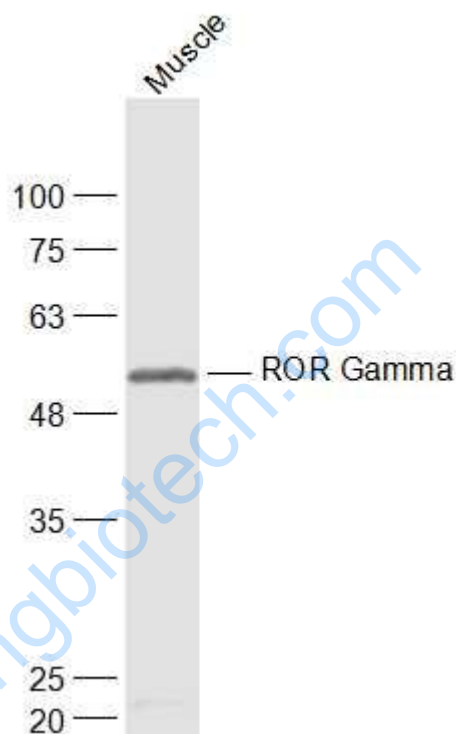
[Unigene: 607993](#)Human

[Unigene: 4372](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Sample:

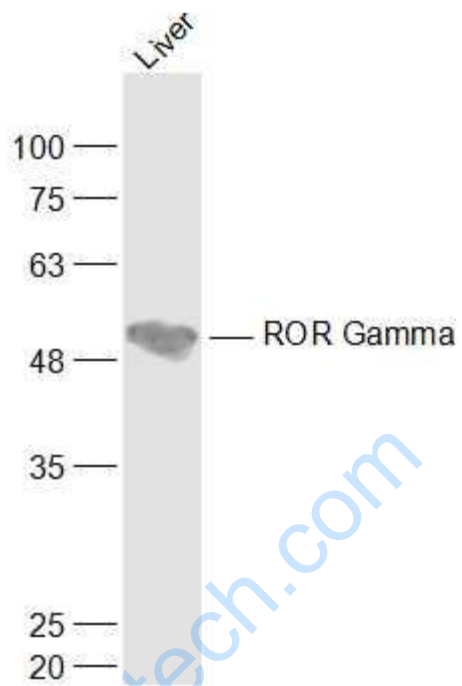
Muscle (Mouse) Lysate at 40 ug

Primary: Anti-ROR Gamma (SL3863R) at 1/1000 dilution

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

Predicted band size: 57 kD

Observed band size: 57 kD



Sample:

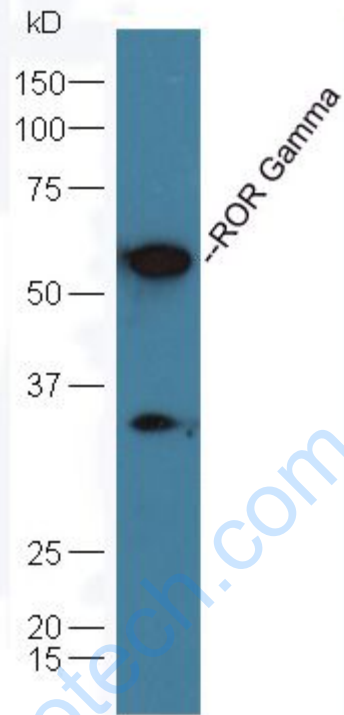
Liver (Mouse) Lysate at 40 ug

Primary: Anti-ROR Gamma (SL3863R) at 1/1000 dilution

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

Predicted band size: 57 kD

Observed band size: 57 kD



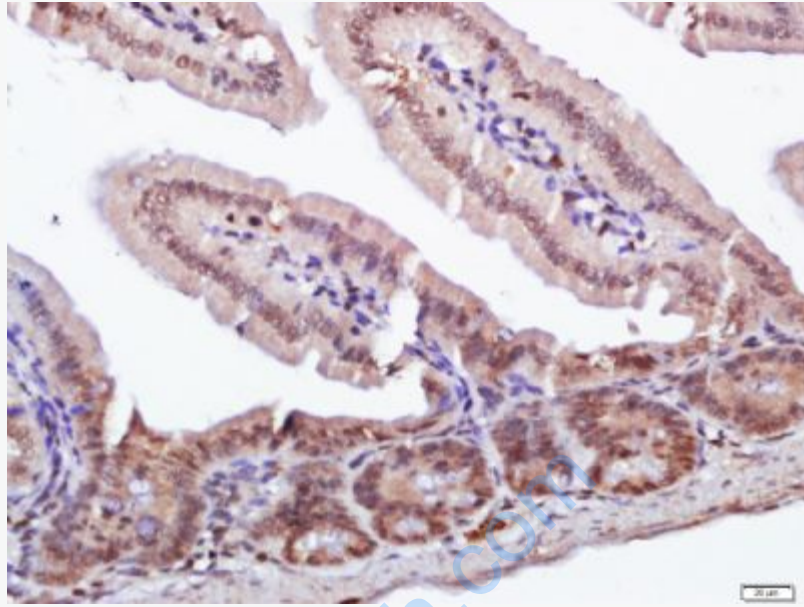
Sample: Liver (Mouse) Lysate at 40 ug

Primary: Anti- ROR Gamma (SL3863R) at 1/300 dilution

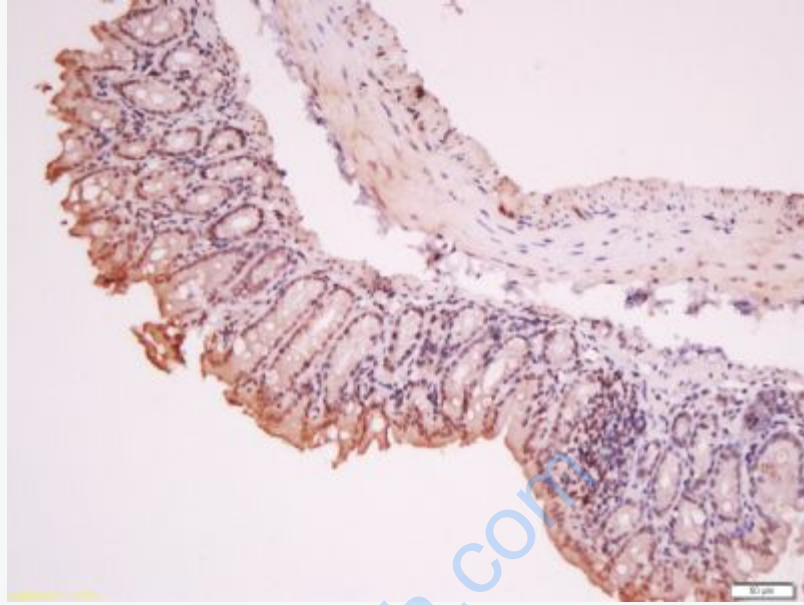
Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL3863R) at 1/5000 dilution

Predicted band size: 57 kD

Observed band size: 57 kD



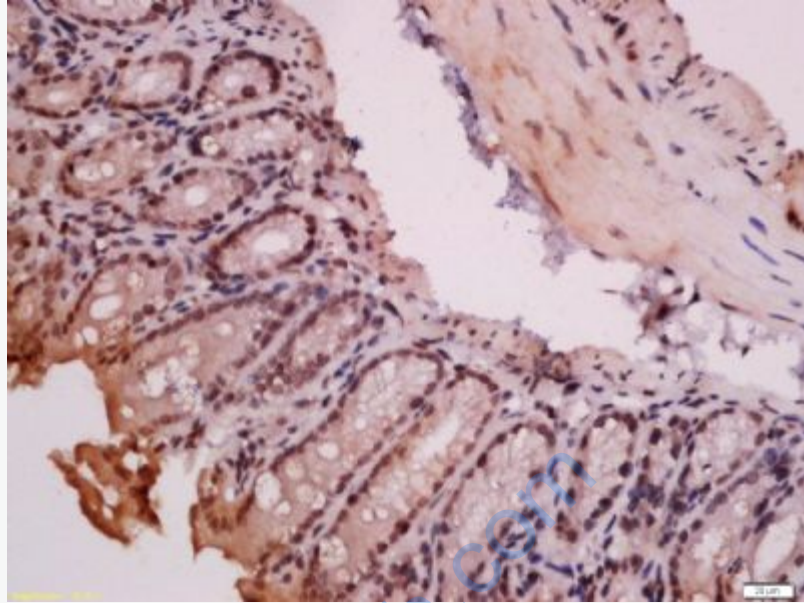
Paraformaldehyde-fixed, paraffin embedded (mouse intestines); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Gamma) Polyclonal Antibody, Unconjugated (SL3863R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: mouse colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ROR Gamma Polyclonal Antibody, Unconjugated(SL3863R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

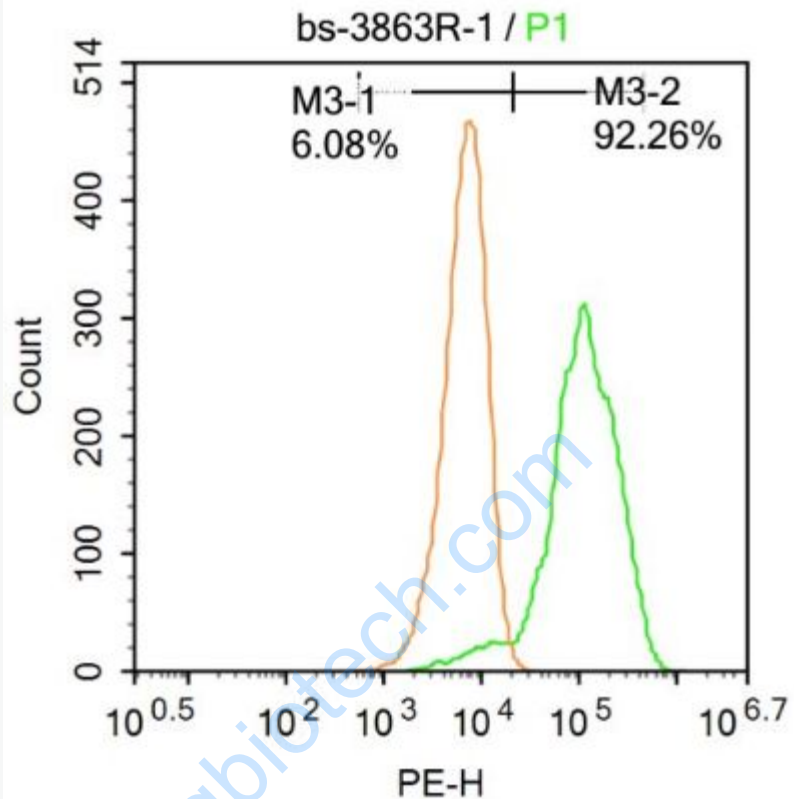


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Blank control: Molt-4.

Primary Antibody (green line): Rabbit Anti-ROR Gamma antibody (SL3863R)

Dilution:  $1\mu\text{g}/10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF647

Dilution:  $1\mu\text{g}/\text{test}$ .

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at  $-20^\circ\text{C}$ . 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 Antibody for 30 min at room

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

Acquisition of 20,000 events was performed.

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