SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-RORC antibody

**Catalog Number: SL6217R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | RORC |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human RORC: 415-518/518 |
| **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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB (1:500-2000)<br>IHC-P (1:100-500)<br>IHC-F (1:100-500)<br>IF (1:100-500)<br>Flow-Cyt (1ug/test)<br>Not yet tested in other applications.<br>Optimal working dilutions must be determined by the end user. |
| **Reactivity:** | Human, Rat (predicted: Mouse, Pig, Cow, Dog, Horse) |
| **Predicted MW.:** | 57kDa |
| **Subcellular Location:** | The nucleus |
| **Background:** | 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]<br>**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 |

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| | nodes. Involved in lineage specification of uncommitted CD4(+) T helper cells into Th17 cells. Regulate the expression of several components of the circadian clock.<br>**Subcellular Location:** Nucleus (Probable).<br>**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.<br>**Similarity:** Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.<br>**Database links:**<br>**Entrez Gene:** 6097 Human<br>**Entrez Gene:** 19885 Mouse<br>**Entrez Gene:** 368158 Rat<br>Omim: 602943 Human<br>**SwissProt:** P51449 Human<br>**SwissProt:** P51450 Mouse<br>**Unigene:** 256022 Human<br>**Unigene:** 607993 Human<br>**Unigene:** 4372 Mouse |

## [ VALIDATION IMAGES ]

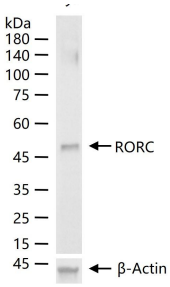



Figure 1. 25 ug total protein per lane of various lysates (see on figure) probed with RORC polyclonal antibody, unconjugated (SL6217R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

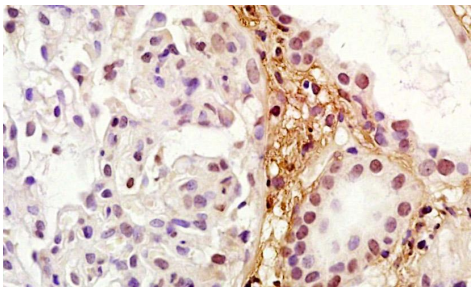


Figure 2. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RORG) Polyclonal Antibody, Unconjugated (SL6217R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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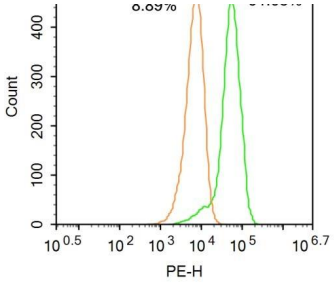



Figure 3. Blank control:Molt-4. Primary Antibody (green line): Rabbit Anti-ROR Gamma antibody (SL6217R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-BF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at 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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