

**Rorc antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI11132****Specification**

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**Rorc antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">P51450</a>
Other Accession	<a href="#">NM_011281</a> , <a href="#">NP_035411</a>
Reactivity	Human, Mouse, Rat, Pig, Dog
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58kDa KDa

**Rorc antibody - N-terminal region - Additional Information****Gene ID** 19885**Alias Symbol** Nr1f3, RORgamma, TOR, Thor**Other Names**

Nuclear receptor ROR-gamma, Nuclear receptor RZR-gamma, Nuclear receptor subfamily 1 group F member 3, RAR-related orphan receptor C, Retinoid-related orphan receptor-gamma, Thymus orphan receptor, TOR, Rorc, Nr1f3, Rorg, Thor

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-Rorc antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

Rorc antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**Rorc antibody - N-terminal region - Protein Information****Name** Rorc**Synonyms** Nr1f3, Rorg, Thor**Function**

Nuclear receptor that binds DNA as a monomer to ROR response elements (RORE) containing a single core motif half-site 5'-AGGTCA-3' preceded by a short A-T-rich sequence. Key regulator of cellular differentiation, immunity, peripheral circadian rhythm as well as lipid, steroid, xenobiotics and glucose metabolism. Considered to have intrinsic transcriptional activity, have some natural ligands like oxysterols that act as agonists (25-hydroxycholesterol) or inverse agonists

(7-oxygenated sterols), enhancing or repressing the transcriptional activity, respectively. Recruits distinct combinations of cofactors to target gene regulatory regions to modulate their transcriptional expression, depending on the tissue, time and promoter contexts (PubMed:<a href="http://www.uniprot.org/citations/17666523" target="\_blank">17666523</a>, PubMed:<a href="http://www.uniprot.org/citations/19381306" target="\_blank">19381306</a>, PubMed:<a href="http://www.uniprot.org/citations/19965867" target="\_blank">19965867</a>, PubMed:<a href="http://www.uniprot.org/citations/21853531" target="\_blank">21853531</a>, PubMed:<a href="http://www.uniprot.org/citations/22789990" target="\_blank">22789990</a>, PubMed:<a href="http://www.uniprot.org/citations/23723244" target="\_blank">23723244</a>). Regulates the circadian expression of clock genes such as CRY1, BMAL1 and NR1D1 in peripheral tissues and in a tissue-selective manner (PubMed:<a href="http://www.uniprot.org/citations/22753030" target="\_blank">22753030</a>). Competes with NR1D1 for binding to their shared DNA response element on some clock genes such as BMAL1, CRY1 and NR1D1 itself, resulting in NR1D1-mediated repression or RORC-mediated activation of the expression, leading to the circadian pattern of clock genes expression. Therefore influences the period length and stability of the clock (PubMed:<a href="http://www.uniprot.org/citations/22753030" target="\_blank">22753030</a>). Involved in the regulation of the rhythmic expression of genes involved in glucose and lipid metabolism, including PLIN2 and AVPR1A. Negative regulator of adipocyte differentiation through the regulation of early phase genes expression, such as MMP3. Controls adipogenesis as well as adipocyte size and modulates insulin sensitivity in obesity. In liver, has specific and redundant functions with RORA as positive or negative modulator of expression of genes encoding phase I and Phase II proteins involved in the metabolism of lipids, steroids and xenobiotics, such as SULT1E1 (PubMed:<a href="http://www.uniprot.org/citations/21853531" target="\_blank">21853531</a>). Also plays also a role in the regulation of hepatocyte glucose metabolism through the regulation of G6PC1 and PCK1. Regulates the rhythmic expression of PROX1 and promotes its nuclear localization.

#### Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:18368049, ECO:0000269|PubMed:21853531, ECO:0000269|PubMed:22753030}

#### Tissue Location

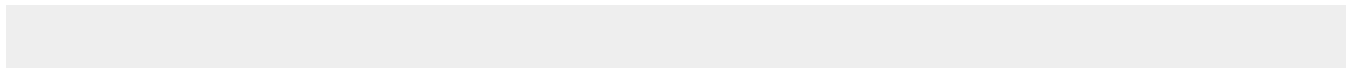
Expressed in immature Vgamma2 gamma-delta T-cells (at protein level) (PubMed:23562159). Expressed in the liver (PubMed:17666523, PubMed:22753030). Expressed in the heart (PubMed:17666523). Expressed in the kidney, jejunum, and brown adipose tissue (PubMed:22753030). [Isoform 2]: Expressed in the thymus, primarily in immature thymocytes, including Vgamma2 gamma-delta T-cells (at protein levels) (PubMed:9881970, PubMed:10602018). Also expressed in a subset of mature T(H)17 cells (PubMed:18164222). Not expressed in the spleen or bone marrow (PubMed:9881970).

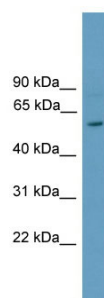
#### Rorc antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Rorc antibody - N-terminal region - Images





WB Suggested Anti-Rorc Antibody Titration: 1 µg/ml  
Positive Control: Mouse Heart lysate