

Rabbit anti-Human, Mouse RORG Polyclonal Antibody | anti-RORG antibody

RORG Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323899	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RORG; Polyclonal Antibody; RORG Antibody; IMD42; MGC129539; 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 nuclear receptor variant 2; RAR related orphan receptor C; isoform a; RAR related orphan receptor gamma; RAR-related orphan receptor C; Retinoic acid binding receptor gamma; Retinoid related orphan receptor gamma; Retinoid-related orphan receptor-gamma; Rorc; RORG_HUMAN; RZR GAMMA; RZRG; TOR; anti-RORG antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	RORG antibody detects endogenous levels of total RORG
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	497
Applicable Applications for anti-RORG antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
Tissue Specificity	Isoform 1 is widely expressed in many tissues, including liver and adipose, and highly expressed in skeletal muscle. Isoform 2 is primarily expressed in immature thymocytes.
Predicted Cross Reactivity	Pig, Zebrafish, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Zebrafish (90%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from HuvEc cells, using RORG antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA323899 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RORG antibody

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 (PubMed:19381306, PubMed:19965867, PubMed:22789990, PubMed:26160376, PubMed:20203100). 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 (PubMed:19965867, PubMed:22789990). Recruits distinct combinations of cofactors to target gene regulatory regions to modulate their transcriptional expression, depending on the tissue, time and promoter contexts. Regulates the circadian expression of clock genes such as CRY1, ARNTL/BMAL1 and NR1D1 in peripheral tissues and in a tissue-selective manner. Competes with NR1D1 for binding to their shared DNA response element on some clock genes such as ARNTL/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. Involved in the regulation of the rhythmic expression of genes involved in glucose and lipid metabolism, including PLIN2 and AVPR1A (PubMed:19965867). 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. Also plays also a role in the regulation of hepatocyte glucose metabolism through the regulation of G6PC and PCK1 (PubMed:19965867). Regulates the rhythmic expression of PROX1 and promotes its nuclear localization (PubMed:19381306, PubMed:19965867, PubMed:22789990, PubMed:26160376, PubMed:20203100). Plays an indispensable role in the induction of IFN-gamma dependent anti-mycobacterial systemic immunity (PubMed:26160376).

Subunit Structure: Interacts (via AF-2 motif) with the coactivator NCOA2 (via LXXLL motif). Interacts with the corepressor NCOR1. Interacts with CRY1. Interacts (via AF-2 motif) with the coactivators NCOA1 and PPARGC1A (via LXXLL motif) (By similarity). Interacts (via AF-2 motif) with PROX1 (By similarity). Interacts with FOXP3.

Similarity: The AF-2 (activation function-2) motif is required for recruiting coregulators containing LXXLL motifs such as NCOA1 and NCOA2. Belongs to the nuclear hormone receptor family. NR1 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48255918
NCBI GeneID	6097
NCBI Accession #	NP_001001523.1
NCBI GenBank Nucleotide #	NM_001001523.1
UniProt Accession #	P51449; Q5SZR9; Q8N5V7; Q8NCY8
Molecular Weight	Observed: 58 kD Predicted: 59 kDa
NCBI Official Full Name	nuclear receptor ROR-gamma isoform b
NCBI Official Synonym Full Names	RAR related orphan receptor C
NCBI Official Symbol	RORC

NCBI Official Synonym Symbols	TOR; RORG; RZRG; IMD42; NR1F3; RZR-GAMMA
NCBI Protein Information	nuclear receptor ROR-gamma
UniProt Protein Name	Nuclear receptor ROR-gamma
UniProt Gene Name	RORC
UniProt Synonym Gene Names	NR1F3; RORG; RZRG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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