Datasheet for ABIN7161881

anti-RORC antibody (AA 1-518)

2 Images

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Overview

Quantity:	100 µg
Target:	RORC
Binding Specificity:	AA 1-518
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RORC antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Nuclear receptor ROR-gamma protein (1-518AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	RORC
Alternative Name:	RORC (RORC Products)
Background:	Background: 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

Target Details

	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. 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. 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. Aliases: IMD42 antibody, MGC129539 antibody, NR1F3 antibody, Nuclear receptor ROR gamma antibody, Nuclear receptor ROR-gamma antibody, Nuclear receptor RZR gamma antibody, Nuclear receptor RZR-gamma antibody, Nuclear receptor subfamily 1 group F member 3 antibody, RAR related orphan nuclear receptor variant 2 antibody, RAR related orphan receptor C antibody, RAR related orphan receptor C, isoform a antibody, RAR related orphan receptor gamma antibody, RAR-related orphan receptor C antibody, Retinoic acid binding receptor gamma antibody, Retinoid related orphan receptor gamma antibody, Retinoid-related orphan receptor-gamma antibody, Rorc antibody, RORG antibody, RORG_HUMAN antibody, RZR GAMMA antibody, RZRG antibody, TOR antibody
UniProt:	P51449
Pathways:	Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway

Application Details

Application Notes:	Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200,

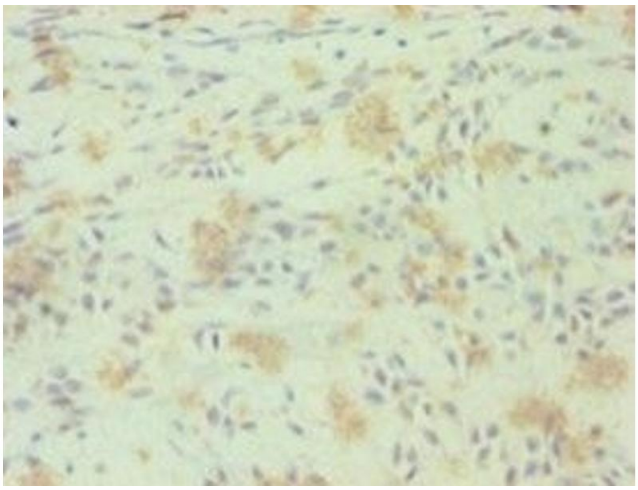
Application Details

Restrictions:	For Research Use only

Handling

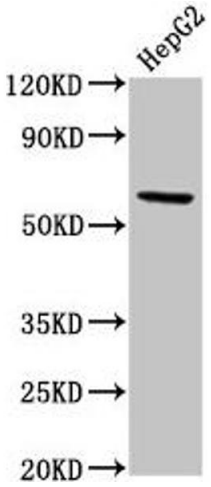
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human breast cancer using ABIN7161881 at dilution of 1:100



Western Blotting

Image 2. Western Blot Positive WB detected in: HepG2 whole cell lysate All lanes: RORC antibody at 5.2 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 59, 56 kDa Observed band size: 59 kDa