

Product datasheet

Anti-ROR alpha/RORA antibody ab70061

[1 References](#) [2 Images](#)

Overview

Product name	Anti-ROR alpha/RORA antibody
Description	Rabbit polyclonal to ROR alpha/RORA
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human, African green monkey
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human breast carcinoma tissue, extracts from HeLa and COS-7 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: 0.87% Sodium chloride, 50% Glycerol (glycerin, glycerine), PBS</p> <p>Without Mg²⁺ and Ca²⁺</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab70061 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 63 kDa (predicted molecular weight: 63 kDa).
IHC-P		1/50 - 1/100.

Target

Function

Orphan nuclear receptor. Binds DNA as a monomer to hormone response elements (HRE) containing a single core motif half-site preceded by a short A-T-rich sequence. This isomer binds to the consensus sequence 5'-[AT][TA]A[AT][CGT]TAGGTCA-3'. Regulates a number of genes involved in lipid metabolism such as apolipoproteins AI, APOA5, CIII, CYP71 and PPARgamma, in cerebellum and photoreceptor development including PCP2, OPN1SW, OPN1SM AND ARR3, in circadian rhythm with BMAL1, and skeletal muscle development with MYOD1. Possible receptor for cholesterol or one of its derivatives.

Tissue specificity

Widely expressed in a number of tissues.

Sequence similarities

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

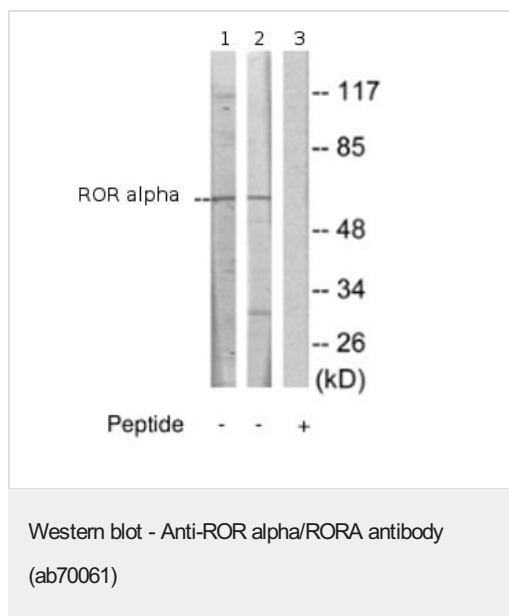
Post-translational modifications

Phosphorylation by PKC in neurons inhibits transcriptional activity. Phosphorylated on Thr-216 by ERK2 in vitro.
Sumoylated by SENP1 and SENP2. Sumoylation, promoted by PIAS2, PIAS3, PIASy but not PIAS1, enhances the transcriptional activity. Desumoylated by SENP1.
Ubiquitinated. Ubiquitination is required for efficient transcriptional activity and is prevented by Hairless.

Cellular localization

Nucleus.

Images



All lanes : Anti-ROR alpha/RORA antibody (ab70061) at 1/500 dilution

Lane 1 : extract from HeLa cells

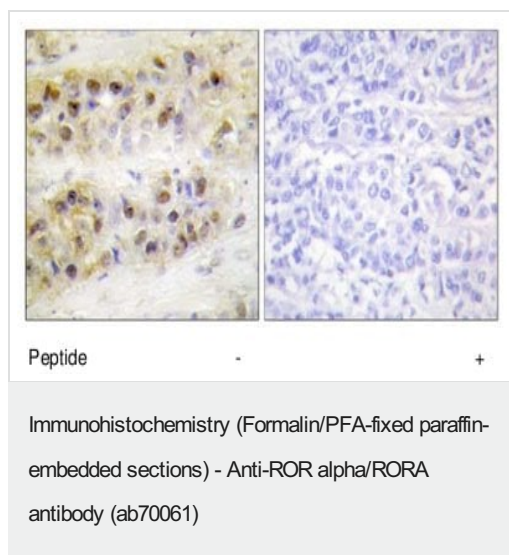
Lane 2 : extract from COS-7 cells

Lane 3 : extract from COS-7 cells with immunising peptide at 5 µg

Lysates/proteins at 5 µg per lane.

Predicted band size: 63 kDa

Observed band size: 63 kDa



Human breast carcinoma tissue with ab70061 at 1/50 dilution, with and without the immunising peptide.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
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