# abcam

## Product datasheet

# Anti-ROR alpha/RORA antibody ab60134

★★★★☆ 4 Abreviews    17 References    3 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-ROR alpha/RORA antibody |
| **Description** | Rabbit polyclonal to ROR alpha/RORA |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** ICC/IF, ChIP, WB, IHC-P, ELISA |
| **Species reactivity** | **Reacts with:** Mouse, Human |
| | **Predicted to work with:** Rat, Sheep, Rabbit, Goat, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Zebrafish ⚠ |
| **Immunogen** | Synthetic peptide corresponding to Human ROR alpha/RORA aa 206-255 (internal sequence). Sequence: |
| | GHTPEGSKADSAVSSFYLDIQPSPDQSGLDINGIKPEPI CDYTPASGFFP |
| | (Peptide available as ab151609) |
| | 🔳 Run BLAST with          🔳 Run BLAST with |
| **Positive control** | Jurkat cells. Kidney tissue. |
| **General notes** | This product was previously labelled as ROR alpha |

## Properties

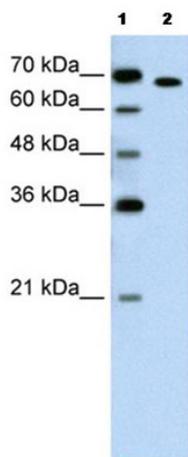| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. |
| **Storage buffer** | Preservative: 0.09% Sodium azide |
| | Constituents: 2% Sucrose, PBS |
| **Purity** | Protein A purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

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

| Application | Abreviews | Notes |
|---|---|---|
| ICC/IF | | Use a concentration of 1 µg/ml. |
| ChIP | | Use at an assay dependent concentration. PubMed: 23922987 |
| WB | ★★★★☆ | Use a concentration of 1.25 µg/ml. Detects a band of approximately 68 kDa (predicted molecular weight: 63 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T. |
| IHC-P | ★★★★☆ | Use a concentration of 4 - 8 µg/ml. |
| ELISA | | Use at an assay dependent concentration. |

## 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

Western blot - Anti-ROR alpha/RORA antibody (ab60134)

**All lanes :** Anti-ROR alpha/RORA antibody (ab60134) at 1.25 µg/ml

**Lane 1 :** Molecular weight marker
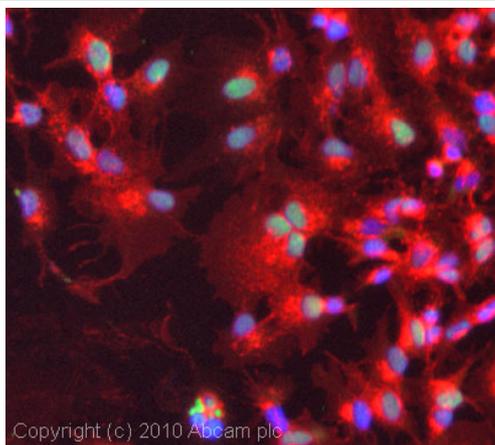**Lane 2 :** Jurkat cell lysate

**Secondary**
**All lanes :** HRP conjugated anti-Rabbit IgG at 1/50000 dilution

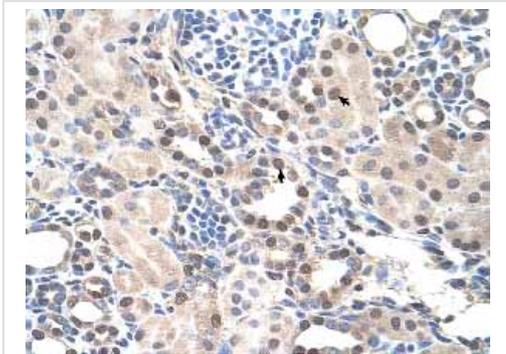**Predicted band size:** 63 kDa
**Observed band size:** 68 kDa

why is the actual band size different from the predicted?

Gel concentration: 12%



Immunocytochemistry/ Immunofluorescence - Anti-ROR alpha/RORA antibody (ab60134)

ICC/IF image of ab60134 stained HepG2 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab60134, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling ROR alpha/RORA with ab60134 at a concentration of 4-8µg/ml. Arrows indicate positively stained epithelial cells of the renal tubule.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROR alpha/RORA antibody (ab60134)

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