

For Research Use Only

# RORA Recombinant antibody

Catalog Number: 82930-1-RR



## Basic Information

<b>Catalog Number:</b> 82930-1-RR	<b>GenBank Accession Number:</b> BC008831	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 300 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6095	<b>CloneNo.:</b> 230217G6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35398	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500 IF 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> RAR-related orphan receptor A	
<b>Immunogen Catalog Number:</b> AG0944	<b>Calculated MW:</b> 59 kDa	
	<b>Observed MW:</b> 60-66 kDa	

## Applications

### Tested Applications:

WB, IF, IHC, ELISA

### Species Specificity:

Human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : A549 cells, HepG2 cells, L02 cells, HuH-7 cells, PC-3 cells

IHC : rat cerebellum tissue,

IF : HepG2 cells,

## Background Information

RORA is a steroid hormone receptor and has been implicated in the pathology of circadian rhythms, bone growth, angiogenesis, development of cones, cellular metabolism and a mediator in the immune and lipid metabolism pathways [PMID:21998696]. It 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, which binds to the consensus sequence 5'-[AT][TA][AT][CGT]TAGGTCA-3'. Regulates a number of genes involved in lipid metabolism such as apolipoproteins AI, APOA5, CIII, CYP71 and PPAR gamma, in cerebellum and photoreceptor development including PCP2, OPN1SW, OPN1SM and ARR3, in circadian rhythm with BMAL1, and skeletal muscle development with MYOD1 [PMID:11053433,14570920].

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

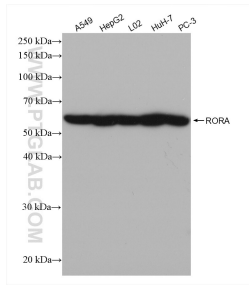
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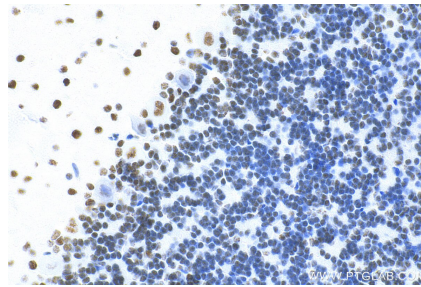
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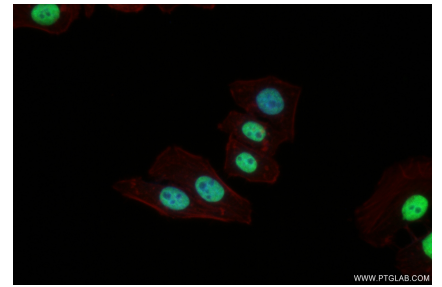
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82930-1-RR (RORA antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 82930-1-RR (RORA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using RORA antibody (82930-1-RR, Clone: 230217G6) at dilution of 1:150 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).