

For Research Use Only

RORA Recombinant antibody

Catalog Number: 82930-1-RR



Basic Information

Catalog Number: 82930-1-RR	GenBank Accession Number: BC008831	Purification Method: Protein A purification
Size: 100ul , Concentration: 300 ug/ml by Nanodrop;	GeneID (NCBI): 6095	CloneNo.: 230217G6
Source: Rabbit	UNIPROT ID: P35398	Recommended Dilutions: WB 1:500-1:3000
Isotype: IgG	Full Name: RAR-related orphan receptor A	IHC 1:50-1:500
Immunogen Catalog Number: AG0944	Calculated MW: 59 kDa	IF-P 1:175-1:700
	Observed MW: 60-66 kDa	IF/ICC 1:150-1:600

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA	Positive Controls: WB : A549 cells, HepG2 cells, L02 cells, HuH-7 cells, PC-3 cells
Species Specificity: human, mouse, rat	IHC : rat cerebellum tissue, mouse cerebellum tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF-P : rat brain tissue,
	IF/ICC : 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]A[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

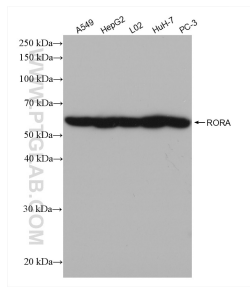
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

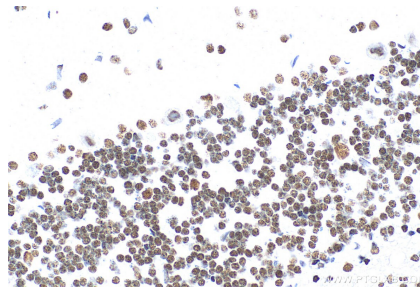
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

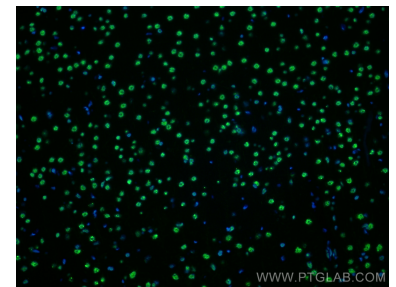
Selected Validation Data



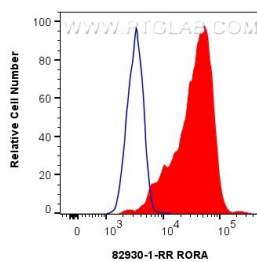
Various lysates were subjected to SDS PAGE followed by western blot with 82930-1-RR (RORA antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



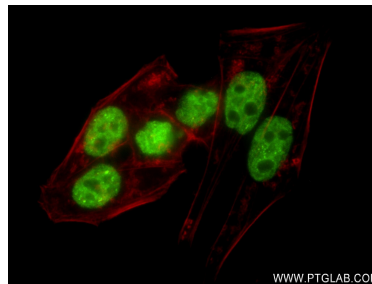
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 82930-1-RR (RORA antibody) at dilution of 1:200 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



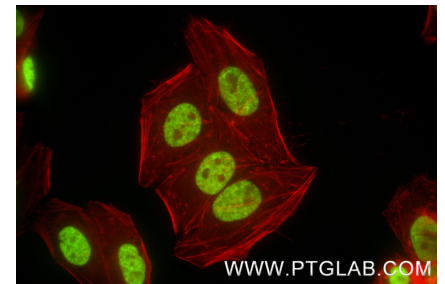
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat brain tissue using RORA antibody (82930-1-RR, Clone: 230217G6) at dilution of 1:350 and Multi-Ab CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ HeLa cells were intracellularly stained with 0.4 ug RORA Recombinant antibody (82930-1-RR, Clone:230217G6) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.4 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using RORA antibody (82930-1-RR, Clone: 230217G6) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using RORA antibody (82930-1-RR, Clone: 230217G6) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).