

RORA Recombinant antibody

Catalog Number: 82930-1-RR

Basic Information

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

Applications

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

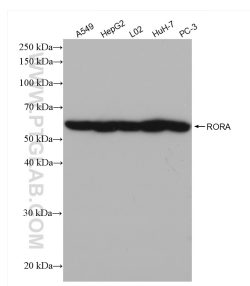
Background Information

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].

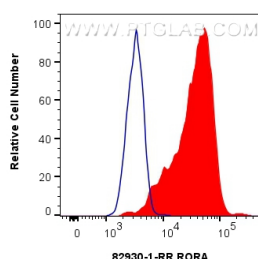
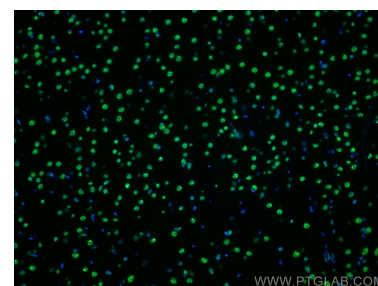
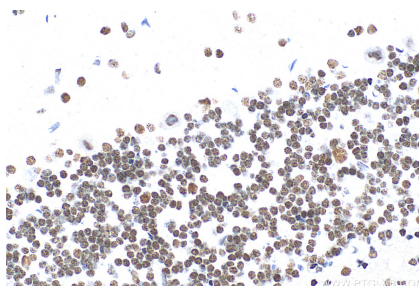
Storage

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

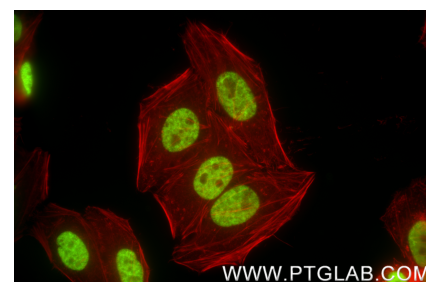
Selected Validation Data



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.



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).



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 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).