

For Research Use Only

# RXRA Polyclonal antibody

Catalog Number: 21218-1-AP

Featured Product

41 Publications



## Basic Information

**Catalog Number:**

21218-1-AP

**Size:**

150ul, Concentration: 550 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG15651

**GenBank Accession Number:**

BC110998

**GeneID (NCBI):**

6256

**UNIPROT ID:**

P19793

**Full Name:**

retinoid X receptor, alpha

**Calculated MW:**

462 aa, 51 kDa

**Observed MW:**

50-54 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:12000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:10-1:100

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP, ChIP, RIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat, pig, duck

**Positive Controls:**

WB : NIH/3T3 cells, MCF-7 cells

IP : MCF-7 cells, HCT 116 cells

IHC : human kidney tissue, mouse heart tissue, human stomach cancer tissue, human thyroid cancer tissue

IF/ICC : Hela cells,

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

## Background Information

Retinoid X receptor alpha (RXRA). Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. The high-affinity ligand for RXRs is 9-cis retinoic acid. RXRA serves as a common heterodimeric partner for a number of nuclear receptors. The RXR/RAR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence of a ligand, the RXR-RAR heterodimers associate with a multiprotein complex containing transcription corepressors that induce histone acetylation, chromatin condensation, and transcriptional suppression. On ligand binding, the corepressors dissociate from the receptors and associate with the coactivators leading to transcriptional activation. The RXRA/PPARA heterodimer is required for PPARA transcriptional activity on fatty acid oxidation genes such as ACOX1 and the P450 system genes. This antibody is a rabbit polyclonal antibody raised against the 350 AA of human RXRA C-terminal. RXRA is highly expressed in the liver and also expressed in the lungs, kidneys, and heart. It can recognize the mature 54 kDa RXRA and the truncated 44 kDa RXRA (PMID: 20541701).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ai-Guo Wang	25218146	Biochem Biophys Res Commun	WB
Liuqin He	30346763	J Agric Food Chem	IHC
Subir Kumar Juin	34680110	Biomolecules	WB

## 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

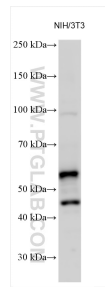
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

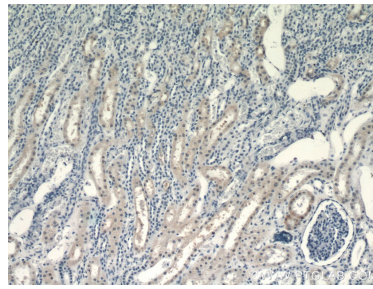
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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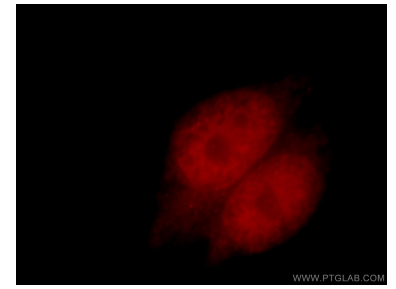
## Selected Validation Data



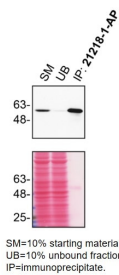
Various lysates were subjected to SDS PAGE followed by western blot with 21218-1-AP (RXRA antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



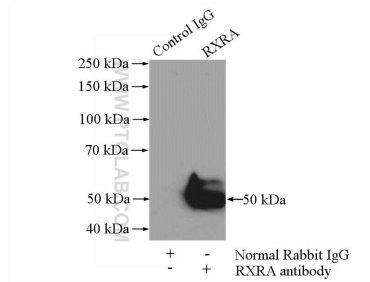
Immunohistochemical analysis of paraffin-embedded human kidney using 21218-1-AP (RXRA antibody) at dilution of 1:200 (under 10x lens).



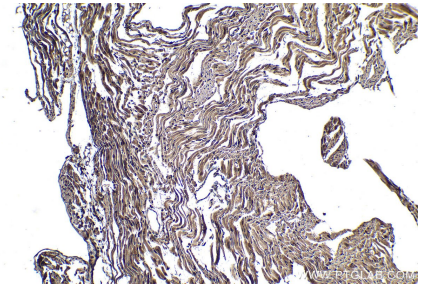
Immunofluorescent analysis of HeLa cells, using RXRA antibody 21218-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



HCT 116 lysates prepared and IP of RXRA performed using 1.0  $\mu$ g of 21218-1-AP coupled to protein A-Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



IP result of anti-RXRA (IP:21218-1-AP, 4 $\mu$ g; Detection:21218-1-AP 1:600) with MCF-7 cells lysate 800 $\mu$ g.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 21218-1-AP (RXRA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).