RXRA
Polyclonal ANTIBODY

Catalog Number: 21218-1-AP

Basic Information

Catalog Number:
21218-1-AP

Size:
mg/ml

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG15651

GenBank Accession Number:
BC110998

GenID (NCBI):
6256

Full Name:
retinoid X receptor, alpha

Calculated MW:
462aa, 51 kDa

Observed MW:
50-54 kDa

Recommended Dilutions:

WB
1:500-1:1000

IP
0.5-4.0 ug for IP and 1:500-1:1000 for WB

IHC
1:20-1:200

IF
1:10-1:100

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, WB

Species Specificity:
human,mouse,rat

Cited Species:
human, mouse

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 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 liver, also expressed in lung, kidney and heart. It specifically recognizes the 51kd human RXRA protein.

Notable Publications

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<th>Author</th>
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<tr>
<td>Ai-Guo Wang</td>
<td>25218146</td>
<td>Biochem Biophys Res Commun</td>
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<td>Ming Cui</td>
<td>25592151</td>
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<td>Junchi He</td>
<td>29886067</td>
<td>Neurobiol Dis</td>
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Storage

Store at -20ºC. Stable for one year after shipment.

Storage Buffer:
PBS, pH 7.3.

Aliquoting is unnecessary for -20ºC storage

For research use only.
MCF7 cells were subjected to SDS PAGE followed by western blot with 21218-1-AP (RXRA antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemical 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).

IP Result of anti-RXRA (IP: 21218-1-AP, 4ug; Detection: 21218-1-AP 1:600) with MCF-7 cells lysate 800ug.