For Research Use Only

RXRA Monoclonal antibody

Catalog Number:60198-1-Ig 1 Publications

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Basic Information

Catalog Number:
60198-1-Ig

Size:
150ul , Concentration: 460 μg/ml by Nanodrop and 453 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG0987

GenBank Accession Number:
BC007925

GeneID (NCBI):
6256

UNIPROT ID:
P19793

Full Name:
retinoid X receptor, alpha

Calculated MW:
462 aa, 51 kDa

Observed MW:
44 kDa

Purification Method:
Protein G purification

CloneNo.:
4H6C4

Recommended Dilutions:
WB 1:200-1:1000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
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 : Hela cells,

IHC : human stomach cancer tissue, mouse cerebellum tissue, rat liver tissue

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 the mature 54 kDa RXRA and the truncated 44 kD RXRA (PMID: 20541701).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaowen Hu	33643408	Int J Endocrinol	WB

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

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
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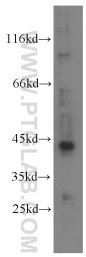
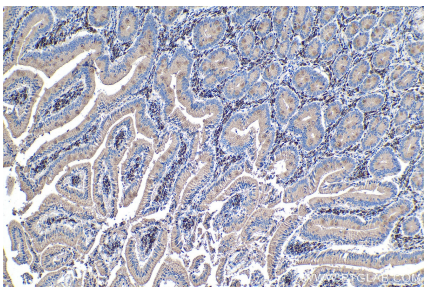
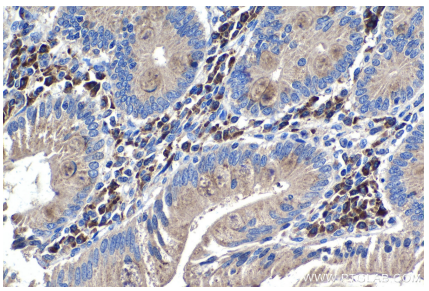
Selected Validation Data



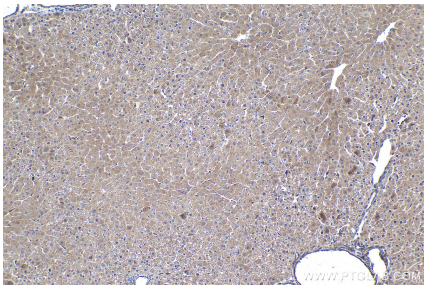
HeLa cells were subjected to SDS PAGE followed by western blot with 60198-1-Ig (RXRA antibody) at dilution of 1:100 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 60198-1-Ig (RXRA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 60198-1-Ig (RXRA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 60198-1-Ig (RXRA antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).