

For Research Use Only

RXRA Recombinant antibody

Catalog Number: 83796-5-RR



Basic Information

Catalog Number: 83796-5-RR	GenBank Accession Number: BC110998	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6256	CloneNo.: 240878A9
Source: Rabbit	UNIPROT ID: P19793	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:300-1:1200
Isotype: IgG	Full Name: retinoid X receptor, alpha	
Immunogen Catalog Number: AG15651	Calculated MW: 462 aa, 51 kDa	
	Observed MW: 54 kDa, 44 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), ELISA

Species Specificity:
human, mouse

Positive Controls:

WB : HeLa cells, HepG2 cells, MCF-7 cells, COLO 320 cells, NIH/3T3 cells

IF/ICC : HeLa cells,

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).

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

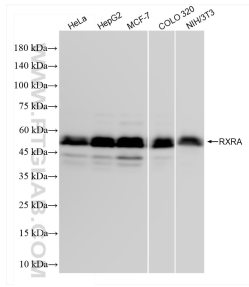
For technical support and original validation data for this product please contact:

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

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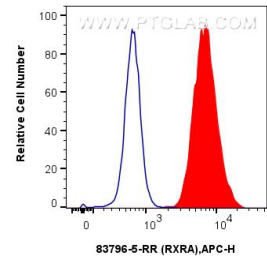
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Selected Validation Data

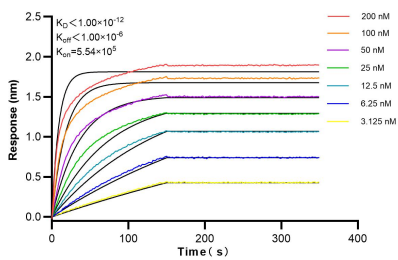


Various lysates were subjected to SDS PAGE followed by western blot with 83796-5-RR (RXRA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HeLa cells using RXRA antibody (83796-5-RR, Clone: 240878A9) at dilution of 1:600 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1×10^6 MCF-7 cells were intracellularly stained with 0.25 μ g RXRA Recombinant antibody (83796-5-RR, Clone:240878A9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 83796-5-RR against Human RXRA were performed. The affinity constant is below 1 pM.