

For Research Use Only

# NCOA4 Recombinant antibody

Catalog Number: 83394-4-RR **1 Publications**



## Basic Information

<b>Catalog Number:</b> 83394-4-RR	<b>GenBank Accession Number:</b> BC012736	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1000 ug/ml	<b>GeneID (NCBI):</b> 8031	<b>CloneNo.:</b> 240169H7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13772	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF/ICC 1:150-1:600
<b>Isotype:</b> IgG	<b>Full Name:</b> nuclear receptor coactivator 4	
<b>Immunogen Catalog Number:</b> AG15277	<b>Calculated MW:</b> 70 kDa	
	<b>Observed MW:</b> 70-73 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> WB : PC-3 cells, HepG2 cells, MCF-7 cells, DU 145 cells IF/ICC : HepG2 cells,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> bovine	

## Background Information

Nuclear receptor coactivator 4 (NCOA4) also named androgen receptor (AR) coactivator ARA70, RFG and ELE1, is a putative co-activator that specifically enhances the activity of the androgen receptor. In human thyroid carcinomas, the Ret proto-oncogene fuses to ARA70 to form Ret/PTC3 by an intrachromosomal inversion of chromosome 10 in vivo. ARA70a can function as a ligand-enhanced co-activator of PPAR $\gamma$  in adipocytes. However, PPAR $\gamma$ -ARA70 transactivation can be squelched by AR, which suggests cross talk between PPAR $\gamma$ - and AR-mediated response. ARA70a has no intrinsic transcription activation domain or histone acetyltransferase activity, but it interacts with histone acetyltransferase, p/CAF, CBP and p300/CBP-associated factors, and the basal transcription factor TFIIB. The interaction between ARA70 and AR occurs through the ligand-binding domain. The presence of ARA70 can enhance the androgenic activity of 17- $\beta$  Estradiol (E2) and antiandrogens toward AR. ARA70 may be involved in prostate carcinogenesis and ovarian cancer and may serve as a key mediator of estrogen-androgen synergism.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongzhu Zhang	39986118	Redox Biol	WB,IF

## 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

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

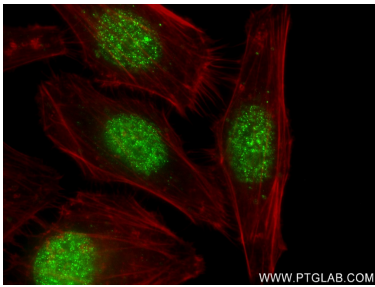
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

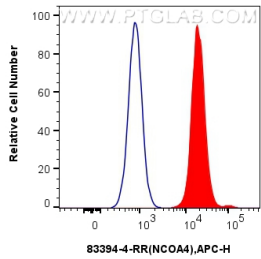
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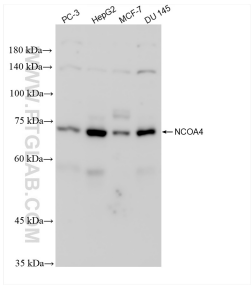
## Selected Validation Data



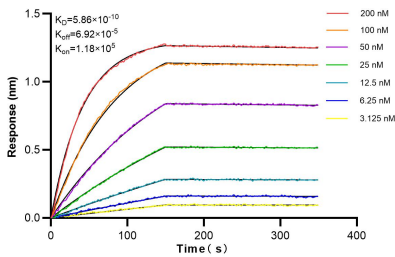
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NCOA4 antibody (83394-4-RR, Clone: 240169H7) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug NCOA4 Recombinant antibody (83394-4-RR, Clone:240169H7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Various lysates were subjected to SDS PAGE followed by western blot with 83394-4-RR (NCOA4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83394-4-RR against Human NCOA4 were performed. The affinity constant is 0.586 nM.