

For Research Use Only

# NCOA4 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83394-4-PBS



## Basic Information

Catalog Number: 83394-4-PBS	GenBank Accession Number: BC012736	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 8031	CloneNo.: 240169H7
Source: Rabbit	UNIPROT ID: Q13772	
Isotype: IgG	Full Name: nuclear receptor coactivator 4	
Immunogen Catalog Number: AG15277	Calculated MW: 70 kDa	
	Observed MW: 70-73 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## 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 PPARγ in adipocytes. However, PPARγ-ARA70 transactivation can be squelched by AR, which suggests cross talk between PPARγ- 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-β 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.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

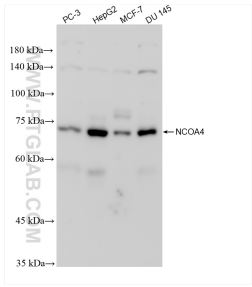
T: 4006900926

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

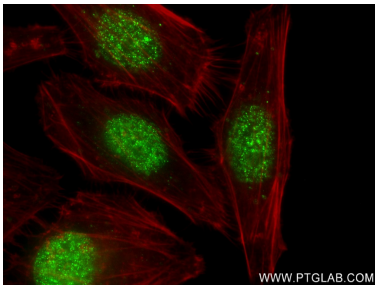
W: [ptgcn.com](http://ptgcn.com)

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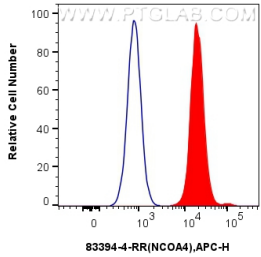
Selected Validation Data



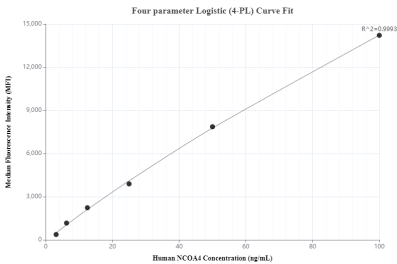
Various lysates were subjected to SDS PAGE followed by western blot with 83394-4-RR (NCOA4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83394-4-PBS in a different storage buffer formulation.



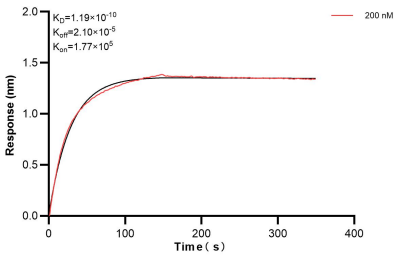
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NCOA4 antibody (83394-4-RR, Clone: 240169H7) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83394-4-PBS in a different storage buffer formulation.



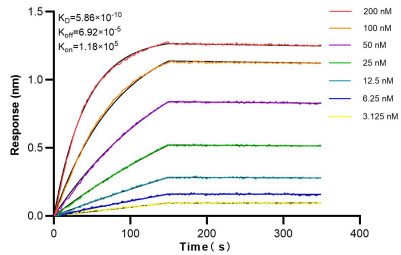
1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug NCOA4 Recombinant antibody (83394-4-RR, Clone:240169H7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83394-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00435-1, NCOA4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83394-4-PBS. Detection antibody: 83394-2-PBS. Standard: Ag15277. Range: 3.13-100 ng/mL



Biolayer interferometry (BLI) kinetic assay of 83394-4-PBS against Human NCOA4 was performed. The affinity constant is 0.119 nM.



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