

For Research Use Only

NCOA4 Recombinant antibody

Catalog Number: 83394-4-RR



Basic Information

Catalog Number: 83394-4-RR	GenBank Accession Number: BC012736	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 8031	CloneNo.: 240169H7
Source: Rabbit	UNIPROT ID: Q13772	Recommended Dilutions: WB 1:2000-1:10000 IF/ICC 1:150-1:600
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), ELISA	Positive Controls: WB : PC-3 cells, HepG2 cells, MCF-7 cells, DU 145 cells IF/ICC : HepG2 cells,
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 -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

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

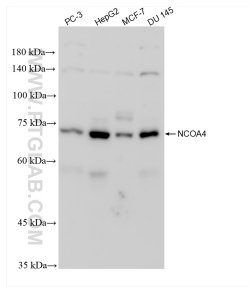
T: 4006900926

E: Proteintech-CN@ptglab.com

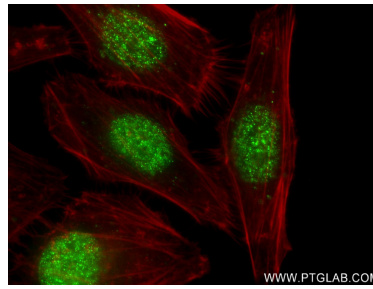
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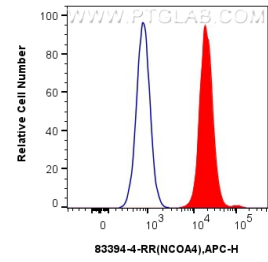
Selected Validation Data



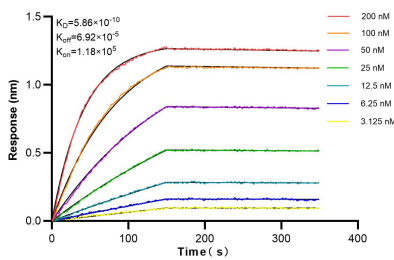
Various lysates were subjected to SDS PAGE followed by western blot with 83394-4-RR (NCOA4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g NCOA4 Recombinant antibody (83394-4-RR, Clone: 240169H7) 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 Transcription Factor Staining Buffer Kit (PF00011).



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