

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: 100ug , Concentration: 1 mg/ml by Nanodrop;	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

Product Information

83394-4-PBS targets NCOA4 as part of a matched antibody pair:

MP00435-1: 83394-4-PBS capture and 83394-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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 γ in adipocytes. However, PPAR γ -ARA70 transactivation can be squelched by AR, which suggests cross talk between PPAR γ - 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.

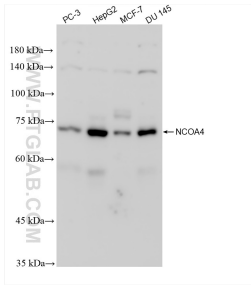
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

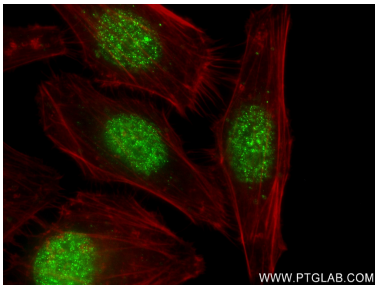
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

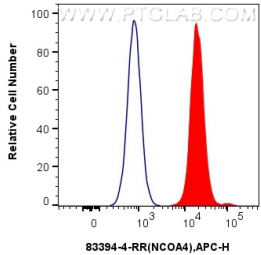
Selected Validation Data



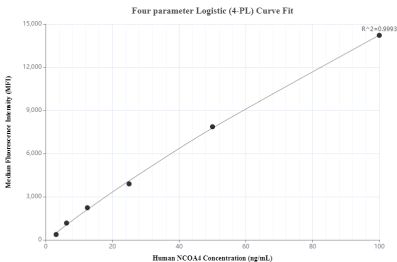
Various lysates were subjected to SDS PAGE followed by western blot with 83394-4-RR (NCOA4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83394-4-PBS in a different storage buffer formulation.



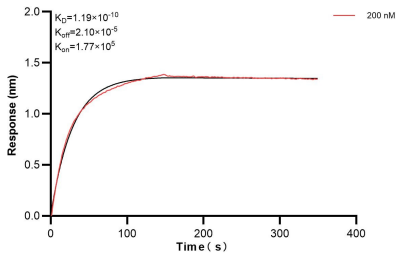
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NCOA4 antibody (83394-4-RR, Clone: 240169H7) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83394-4-PBS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



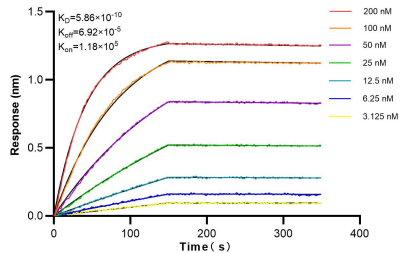
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug NCOA4 Recombinant antibody (83394-4-RR, Clone:240169H7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). 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.