

For Research Use Only

NCOA4 Polyclonal antibody

Catalog Number: 10968-1-AP **2 Publications**



Basic Information

Catalog Number: 10968-1-AP	GenBank Accession Number: BC012736	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 260 µg/ml by Nanodrop;	GeneID (NCBI): 8031	Recommended Dilutions: IHC 1:50-1:500
Source: Rabbit	Full Name: nuclear receptor coactivator 4	
Isotype: IgG	Calculated MW: 70 kDa	
Immunogen Catalog Number: AG1408		

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : mouse brain tissue,
Cited Applications: IF, WB	
Species Specificity: human, mouse	
Cited Species: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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 TFIIIB. 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. There are several isoforms of ZGPAT that are produced as a result of alternative splicing events. ARA70a is widely expressed, and its expression is highest in testis and adipose tissues, whereas ARA70b (The shorter variant, results from an internal 985-bp deletion.) is solely expressed in the testis. This antibody is a rabbit polyclonal antibody raised against the N-400aa of human NCOA4 protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Hao Li	34917147	J Oncol	WB,IF
Rufang Wang	37866802	Biochem Pharmacol	WB

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:
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10968-1-AP (NCOA4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10968-1-AP (NCOA4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).