

**NCOA4 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16218b**

**Specification**

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**NCOA4 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q13772</a>
Other Accession	<a href="#">NP_005428.1</a> , <a href="#">NP_001138732.1</a> , <a href="#">NP_001138734.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	69726
Antigen Region	496-524

**NCOA4 Antibody (C-term) - Additional Information**

**Gene ID** 8031

**Other Names**

Nuclear receptor coactivator 4, NCoA-4, Androgen receptor coactivator 70 kDa protein, 70 kDa AR-activator, 70 kDa androgen receptor coactivator, Androgen receptor-associated protein of 70 kDa, Ret-activating protein ELE1, NCOA4, ARA70, ELE1, RFG

**Target/Specificity**

This NCOA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 496-524 amino acids from the C-terminal region of human NCOA4.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NCOA4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**NCOA4 Antibody (C-term) - Protein Information**

**Name** NCOA4

**Synonyms** ARA70 {ECO:0000303|PubMed:8643607}, ELE1

**Function** Cargo receptor for the autophagic turnover of the iron-binding ferritin complex, playing a central role in iron homeostasis (PubMed:[25327288](#), PubMed:[26436293](#)). Acts as an adapter for delivery of ferritin to lysosomes and autophagic degradation of ferritin, a process named ferritinophagy (PubMed:[25327288](#), PubMed:[26436293](#)). Targets the iron-binding ferritin complex to autolysosomes following starvation or iron depletion (PubMed:[25327288](#)). Ensures efficient erythropoiesis, possibly by regulating hemin-induced erythroid differentiation (PubMed:[26436293](#)). In some studies, has been shown to enhance the androgen receptor AR transcriptional activity as well as acting as ligand-independent coactivator of the peroxisome proliferator-activated receptor (PPAR) gamma (PubMed:[10347167](#), PubMed:[8643607](#)). Another study shows only weak behavior as a coactivator for the androgen receptor and no alteration of the ligand responsiveness of the AR (PubMed:[10517667](#)). Binds to DNA replication origins, binding is not restricted to sites of active transcription and may likely be independent from the nuclear receptor transcriptional coactivator function (PubMed:[24910095](#)). May inhibit activation of DNA replication origins, possibly by obstructing DNA unwinding via interaction with the MCM2-7 complex (PubMed:[24910095](#)).

#### Cellular Location

Cytoplasmic vesicle, autophagosome. Autolysosome. Nucleus Chromosome

#### Tissue Location

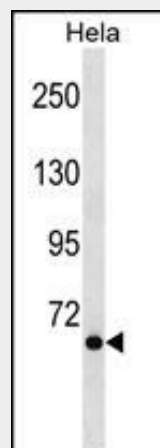
Widely expressed. Also detected in adipose tissues and in different cell lines. Isoform Beta is only expressed in testis

#### NCOA4 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### NCOA4 Antibody (C-term) - Images



NCOA4 Antibody (C-term) (Cat. #AP16218b) western blot analysis in HeLa cell line lysates

(35ug/lane). This demonstrates the NCOA4 antibody detected the NCOA4 protein (arrow).

#### **NCOA4 Antibody (C-term) - Background**

This gene encodes an androgen receptor coactivator. The encoded protein interacts with the androgen receptor in a ligand-dependent manner to enhance its transcriptional activity. Chromosomal translocations between this gene and the ret tyrosine kinase gene, also located on chromosome 10, have been associated with papillary thyroid carcinoma.

#### **NCOA4 Antibody (C-term) - References**

Sadow, P.M., et al. *Endocr. Pathol.* 21(2):73-79(2010)  
Landa, I., et al. *PLoS Genet.* 5 (9), E1000637 (2009) :  
Richardson, D.S., et al. *Cancer Res.* 69(11):4861-4869(2009)  
Peng, Y., et al. *Am. J. Pathol.* 172(1):225-235(2008)  
Olsen, J.V., et al. *Cell* 127(3):635-648(2006)