

ARA70 Polyclonal Antibody
Catalog # AP68485**Specification****ARA70 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	Q13772
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

ARA70 Polyclonal Antibody - Additional Information

Gene ID 8031

Other Names

NCOA4; ARA70; ELE1; RFG; 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

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

ARA70 Polyclonal Antibody - 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](http://www.uniprot.org/citations/25327288), PubMed: [26436293](http://www.uniprot.org/citations/26436293)). Acts as an adapter for delivery of ferritin to lysosomes and autophagic degradation of ferritin, a process named ferritinophagy (PubMed: [25327288](http://www.uniprot.org/citations/25327288), PubMed: [26436293](http://www.uniprot.org/citations/26436293)). Targets the iron-binding ferritin complex to autolysosomes following starvation or iron depletion (PubMed: [25327288](http://www.uniprot.org/citations/25327288)). Ensures efficient erythropoiesis, possibly by regulating hemin-induced erythroid differentiation (PubMed: [26436293](http://www.uniprot.org/citations/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

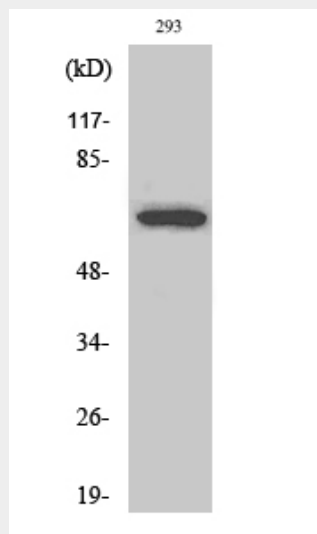
Widely expressed. Also detected in adipose tissues and in different cell lines. Isoform Beta is only expressed in testis

ARA70 Polyclonal Antibody - 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](#)

ARA70 Polyclonal Antibody - Images



ARA70 Polyclonal Antibody - Background

Enhances the androgen receptor transcriptional activity in prostate cancer cells.
Ligand-independent coactivator of the peroxisome proliferator-activated receptor (PPAR) gamma.