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ARA70 Polyclonal Antibody
Catalog # AP68485

Specification

ARA70 Polyclonal Antibody - Product Information

Application	**WB, IHC-P**
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.
IHC-P~~N/A

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

Storage Conditions
-20℃

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, 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:<a

href="http://www.uniprot.org/citations/26436293" target="_blank">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

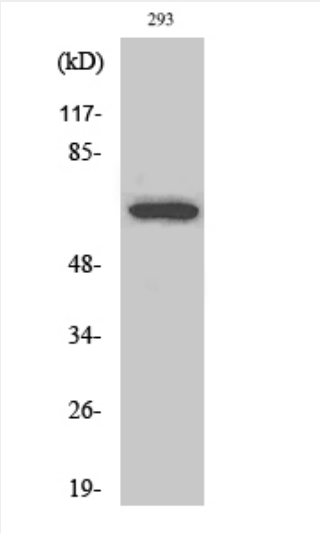
Tissue Location
Widely expressed. Also detected in adipose tissues and in different cell lines. Isoform Beta is only expressed in testis

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 Cytomety
- Cell Culture

ARA70 Polyclonal Antibody - Images



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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.