

Rabbit NCOA4 Polyclonal Antibody | anti-NCOA4 antibody

NCOA4 (IN) Antibody

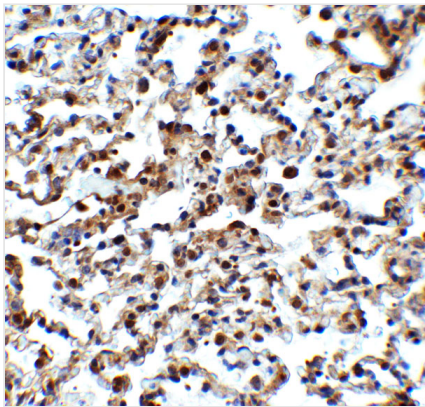
CATALOG # AAA11046	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot, Immunofluorescence
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PRODUCT SYNONYMS

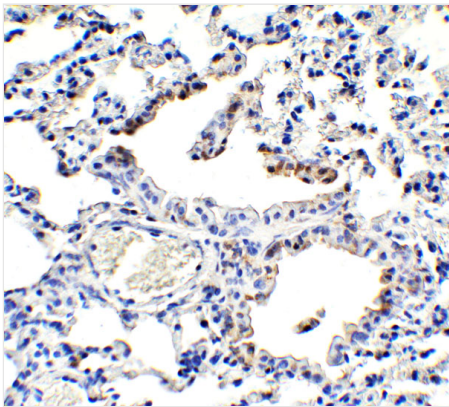
NCOA4; Polyclonal Antibody; NCOA4 (IN) Antibody; NCOA4 Antibody: Nuclear receptor coactivator 4; NCoA-4; Androgen receptor coactivator 70 kDa protein; 70 kDa AR-activator; 70 kDa androgen receptor coactivator; Androgen receptor-associated protein of 70 kDa; Ret-activating protein ELE1; ARA70; ELE1; RFG; nuclear receptor coactivator 4; anti-NCOA4 antibody

PRODUCT SPECIFICATIONS

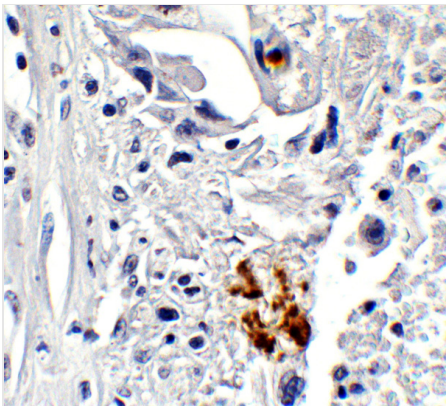
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	NCOA4 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; NCOA4 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-NCOA4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence)
Application Notes	WB: 0.5-1ug/mL; IHC: 1ug/mL; IF: 20ug/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunofluorescence in human samples and Immunohistochemistry in human, mouse and rat samples. All other applications and species not yet tested.
Immunogen	Anti-NCOA4 antibody (9663) was raised against a peptide corresponding to 13 amino acids near the center of human NCOA4. The immunogen is located within 420-470 amino acids of NCOA4.
Homology	Predicted species reactivity based on immunogen sequence: monkey (100%), gorilla (100%), dog (100%), horse (100%)
Research Area	Signal Transduction
NCBI Organism	Homo sapiens
Isoforms	Human NCOA4 has 4 isoforms, including isoform alpha (614aa, 69.7kD), isoform beta (287aa, 32.6kD), isoform 3 (630aa, 71.4kD) and isoform 4 (650aa, 73.6kD). Mouse NCOA4 has at least one isoform (625aa, 70.4kD). Rat NCOA4 has one isoform (622aa, 70.3kD). can detect NCOA4 in human, mouse and rat.
Preparation and Storage	NCOA4 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



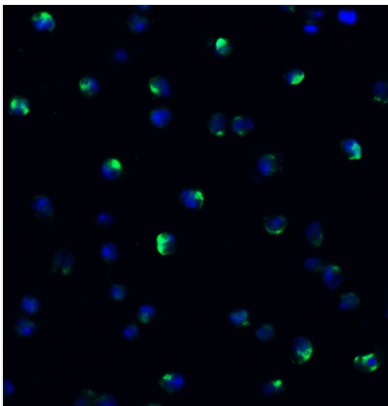
IHC (Immunohistochemistry)
Figure 7: Immunohistochemistry Validation of NCOA4 in Rat lungImmunohistochemical analysis of paraffin-embedded rat tissue using anti-NCOA4 antibody (AAA11046) at 1ug/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 degree C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



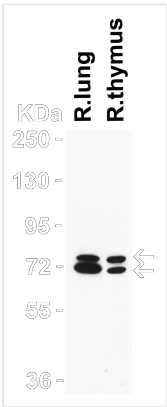
IHC (Immunohistochemistry)
Figure 6: Immunohistochemistry Validation of NCOA4 in Mouse lungImmunohistochemical analysis of paraffin-embedded mouse tissue using anti-NCOA4 antibody (AAA11046) at 1ug/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 degree C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



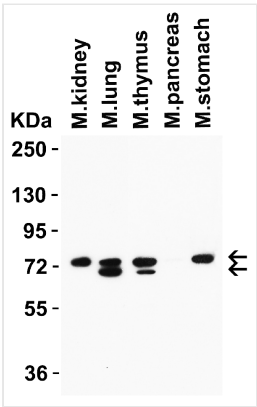
IHC (Immunohistochemistry)
Figure 5: Immunohistochemistry Validation of NCOA4 in Human lungImmunohistochemical analysis of paraffin-embedded human mouse tissue using anti-NCOA4 antibody (AAA11046) at 1ug/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 degree C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



IF (Immunofluorescence)
Figure 4: Immunofluorescence Validation of NCOA4 in Daudi CellsImmunofluorescent analysis of 4% paraformaldehyde-fixed Daudi cells labeling NCOA4 with AAA11046 at 20ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



WB (Western Blot)
Figure 3: Western Blot Validation in Rat TissuesLoading: 15ug of lysates per lane.Antibodies: NCOA4 AAA11046, 1ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



WB (Western Blot)
Figure 2: Western Blot Validation in Mouse Tissues Loading: 15ug of lysates per lane. Antibodies: NCOA4 AAA11046, 1ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-NCOA4 antibody	NCOA4 Antibody: Study showed that NCOA4-mediated ferritin complex degradation supplies iron to mitochondria. Loss of COPZ1 induces NCOA4 mediated autophagy and ferroptosis in glioblastoma cell lines. NCOA4-mediated ferritinophagy promoted inflammatory responses in periodontitis. Low expression of ferritinophagy-related NCOA4 gene in relation to unfavorable outcome and defective immune cells infiltration in clear cell renal carcinoma.
Product Categories/Family for anti-NCOA4 antibody	Primary Antibodies
References	Fujimaki et al. Mol Cell Biol. 2019; 39(14): e00010-19 Zhang et al. Oncogene. 2021; 40(8): 1425-1439 Guo et al. J Periodontal Res. 2021; 56(3): 523-534 Mou et al. BMC Cancer. 2021; 21(1):18

NCBI AND UNIPROT INFORMATION

NCBI GI #	8928226
NCBI GeneID	8031
NCBI Accession #	NP_001138732.1
NCBI GenBank Nucleotide #	NM_001145260.1
UniProt Accession #	Q13772; Q14239; A8K8W5; B4E260; E9PAV7; J3KQN8
Molecular Weight	69,726 Da
NCBI Official Full Name	nuclear receptor coactivator 4 isoform 1
NCBI Official Synonym Full Names	nuclear receptor coactivator 4
NCBI Official Symbol	NCOA4
NCBI Official Synonym Symbols	RFG; ELE1; PTC3; ARA70
NCBI Protein Information	nuclear receptor coactivator 4; NCoA-4; ret fused; 70 kDa AR-activator; RET-activating gene ELE1; 70 kDa androgen receptor coactivator; androgen receptor-associated protein of 70 kDa
UniProt Protein Name	Nuclear receptor coactivator 4
UniProt Gene Name	NCOA4
UniProt Synonym Gene Names	ARA70; ELE1; RFG; NCoA-4; 70 kDa AR-activator
UniProt Entry Name	NCOA4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ncoa4-antibody-immunohistochemistry-western-blot-immunofluorescence-elisa/11046>