BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-NCOA4 Antibody Picoband®

Catalog Number: A04368-3

About NCOA4

Nuclear receptor coactivator 4 is a protein that in humans is encoded by the NCOA4 gene. 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. Alternatively spliced transcript variants have been described. Pseudogenes are present on chromosomes 4, 5, 10, and 14.

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Overview

Product Name	Anti-NCOA4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NCOA4 Antibody Picoband® catalog # A04368-3. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q13772

Technical Details

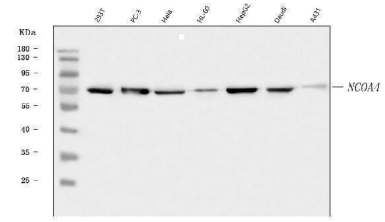
Immunogen	E.coli-derived human NCOA4 recombinant protein (Position: R14-M614).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

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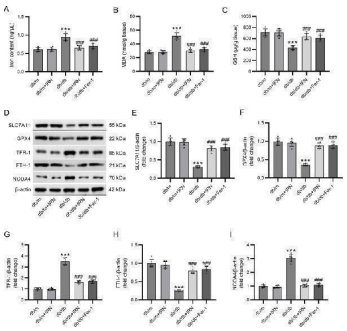
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, - Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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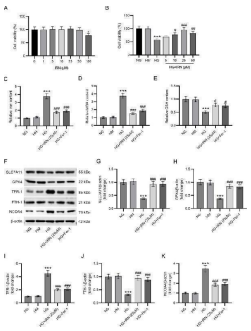
Anti-NCOA4 Antibody Picoband® (A04368-3) Images



Western blot analysis of NCOA4 using anti-NCOA4 antibody (A04368-3). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human PC-3 whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human HL-60 whole cell lysates, Lane 5: human HepG2 whole cell lysates, Lane 6: human Daudi whole cell lysates, Lane 7: human A431 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NCOA4 antigen affinity purified polyclonal antibody (Catalog # A04368-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NCOA4 at approximately 70 kDa. The expected band size for NCOA4 is at 70 kDa.



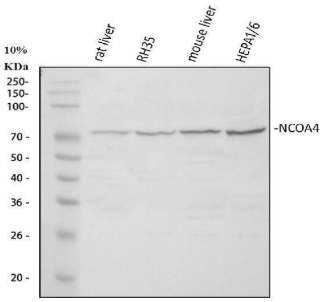
IRN inhibits ferroptosis in db/db mice. (A–C) Examination of iron content, MDA levels, and GSH levels in mouse renal tissues. (D–I) Evaluation of SLC7A11, GPX4, TFR-1, FTH-1, and NCOA4 protein expression in mouse kidney tissues through western blotting and densitometric analysis of the bands. Results are presented as the mean ± SD of 6 mice. ***p < 0.001 versus db/m; ###p < 0.001 versus db/db.Index in NEFROLOGIA under a CC BY license. DOI: 10.1016/j.nefro.2025.501408



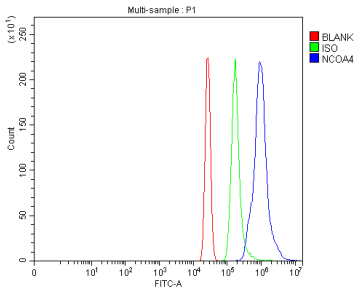
IRN curbs HG-induced HK-2 cell injury and ferroptosis. (A) Detection of the cytotoxicity of IRN against HK-2 cells through CCK-8 assay. *p < 0.05. (B) Assessment of HK-2 cell viability after treatment with normal glucose, normal glucose + mannitol, high glucose, or high glucose + IRN (5, 10, 25, or 50 uM) by CCK-8 assay. (C–E) Measurement of iron content, MDA levels, and GSH levels in HK-2 cells. (F–K) Estimation of SLC7A11, GPX4, TFR-1, FTH-1, and NCOA4 protein levels in HK-2 cells via western blotting and densitometric analysis of the bands. Results are presented as the mean ± SD of three independent experiments. ***p < 0.001 versus NG; #p < 0.05, ##p < 0.01, ###p < 0.001 versus HG.Index in NEFROLOGIA under a CC BY license. DOI: 10.1016/j.nefro.2025.501408

Western blot analysis of NCOA4 using anti-NCOA4 antibody (A04368-3). Electrophoresis was performed on a 5-20% SDS-

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PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat liver tissue lysates, Lane 2: rat RH35 whole cell lysates, Lane 3: mouse liver tissue lysates, Lane 4: mouse HEPA1/6 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NCOA4 antigen affinity purified polyclonal antibody (Catalog # A04368-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NCOA4 at approximately 70 kDa. The expected band size for NCOA4 is at 70 kDa.



Flow Cytometry analysis of HL-60 cells using anti-NCOA4 antibody (A04368-3). Overlay histogram showing HL-60 cells stained with A04368-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NCOA4 Antibody (A04368-3, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-NCOA4 Antibody

For Research Use Only. Not for use in diagnostic procedures.