

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.

Overview

Product Name	Anti-NCOA4 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-NCOA4 Antibody Picoband™ catalog # A04368-3. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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.
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 µg/ml, Human

Flow Cytometry, 1-3 µg/1x10⁶ cells, Human

Direct ELISA, 0.1-0.5 µg/ml, Human

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

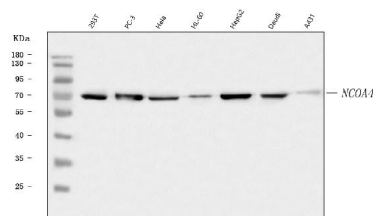


Figure 1. Western blot analysis of NCOA4 using anti-NCOA4 antibody (A04368-3).

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.

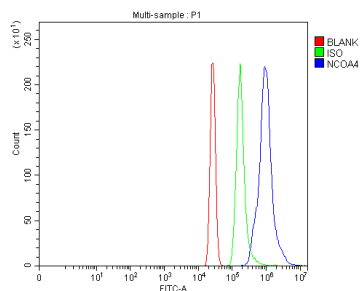


Figure 2. Flow Cytometry analysis of HL-60 cells using anti-NCOA4 antibody (A04368-3).

Overlay histogram showing HL-60 cells stained with A04368-3 (Blue line). 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 (Red line) was also used as a control.

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