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BOSTER BIOLOGICAL TECHNOLOGY
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Anti-KAT13A/SRC1/NCOA1 Antibody Picoband®

Catalog Number: RP1056

About NCOA1

The nuclear receptor coactivator 1 (NCOA1), also known as SRC1, is a transcriptional coregulatory protein that contains several nuclear receptor interacting domains and an intrinsic histone acetyltransferase activity. NCOA1 is recruited to DNA promotion sites by ligand-activated nuclear receptors. NCOA1, in turn, acylates histones, which makes downsteam DNA more accessible to transcription. Hence, NCOA1 assists nuclear receptors in the upregulation of DNA expression. It has been found that NCOA1 can enhance the transcriptional activity of ligand-bound PGR but does not alter the basal activity of the target promoter. It also enhances estrogen receptor, glucocorticoid receptor, thyroid hormone receptor, and retinoid X receptor transcriptional activities through their cognate DNA response elements in the presence of hormone. What's more, SRC1 may play a role as a bridging molecule between nuclear hormone receptors and general transcription factors.

Overview

Product Name	Anti-KAT13A/SRC1/NCOA1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-KAT13A/SRC1/NCOA1 Antibody catalog # RP1056. Tested in Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human. 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	Flow Cytometry, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q15788

Technical Details

Immunogen	E.coli-derived human KAT13A recombinant protein (Position: H614-Q826). Human KAT13A shares 92% amino acid (aa) sequence identity with mouse KAT13A.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
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 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human

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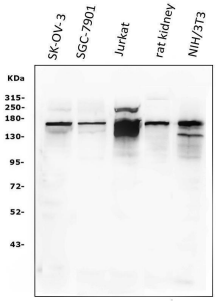
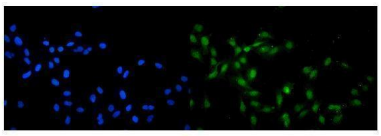
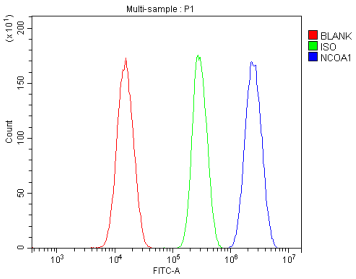
Anti-KAT13A/SRC1/NCOA1 Antibody Picoband® (RP1056) Images



Western blot analysis of KAT13A/SRC1 using anti-KAT13A/SRC1 antibody (RP1056). 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 50ug of sample under reducing conditions. Lane 1: SK-OV-3 whole cell lysates, Lane 2: SGC-7901 whole cell lysates, Lane 3: Jurkat whole cell lysates, Lane 4: rat kidney tissue lysates, Lane 5: NIH/3T3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-KAT13A/SRC1 antigen affinity purified polyclonal antibody (Catalog # RP1056) 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 KAT13A/SRC1 at approximately 157KD. The expected band size for KAT13A/SRC1 is at 157KD.



IF analysis of KAT13A/SRC1 using anti-KAT13A/SRC1 antibody (RP1056). KAT13A/SRC1 was detected in immunocytochemical section of U20S cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL rabbit anti-KAT13A/SRC1 Antibody (RP1056) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of SiHa cells using anti-KAT13A/SRC1 antibody (RP1056).Overlay histogram showing SiHa cells stained with RP1056 (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-KAT13A/SRC1 Antibody (RP1056,1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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