BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Retinoid X Receptor alpha/RXRA Antibody Picoband® (monoclonal, 5E7)

Catalog Number: M01299

About RXRA

Retinoid X receptor alpha (RXR-alpha), also known as NR2B1 (nuclear receptor subfamily 2, group B, member 1) is a nuclear receptor that in humans is encoded by the RXRA gene. Retinoid X receptors (RXRs) and retinoic acid receptors (RARs) are nuclear receptors that mediate the biological effects of retinoids by their involvement in retinoic acid-mediated gene activation. These receptors function as transcription factors by binding as homodimers or heterodimers to specific sequences in the promoters of target genes. The protein encoded by this gene is a member of the steroid and thyroid hormone receptor superfamily of transcriptional regulators. Alternative splicing of this gene results in multiple transcript variants.

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Overview

Product Name	Anti-Retinoid X Receptor alpha/RXRA Antibody Picoband® (monoclonal, 5E7)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Retinoid X Receptor alpha/RXRA Antibody Picoband® (monoclonal, 5E7) catalog # M01299. Tested in 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	Flow Cytometry, WB
Clonality	Monoclonal 5E7
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	Mouse
Uniprot ID	P19793

Technical Details

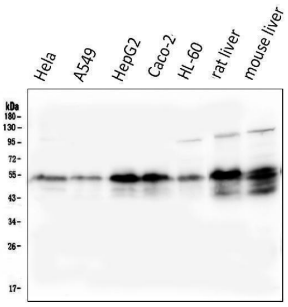
Immunogen	E. coli-derived human RXRA recombinant protein (Position: A226-T462).

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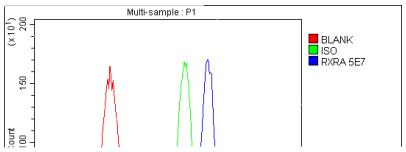
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG1
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human 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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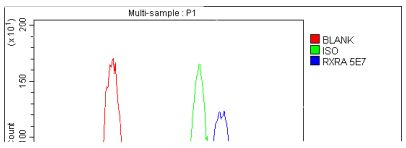
Anti-Retinoid X Receptor alpha/RXRA Antibody Picoband® (monoclonal, 5E7) (M01299) Images



Western blot analysis of Retinoid X Receptor alpha/RXRA using anti-Retinoid X Receptor alpha/RXRA antibody (M01299). 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: human Hela whole cell lysates; Lane 2: human A549 whole cell lysates; Lane 3: human HepG2 whole cell lysates; Lane 4: human Caco-2 whole cell lysates; Lane 5: human HL-60 whole cell lysates; Lane 6: rat liver tissue lysates; Lane 7: mouse liver tissue 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 mouse anti-Retinoid X Receptor alpha/RXRA antigen affinity purified monoclonal antibody (Catalog # M01299) 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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for Retinoid X Receptor alpha/RXRA at approximately 55KD. The expected band size for Retinoid X Receptor alpha/RXRA is at 51KD.



Flow Cytometry analysis of A549 cells using anti- Retinoid X Receptor alpha/RXRA antibody (M01299). Overlay histogram showing A549 cells stained with M01299 (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 mouse anti- Retinoid X Receptor alpha/RXRA Antibody (M01299, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse 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.



Flow Cytometry analysis of CACO-2 cells using anti- Retinoid X Receptor alpha/RXRA antibody (M01299). Overlay histogram showing CACO-2 cells stained with M01299 (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 mouse anti- Retinoid X Receptor alpha/RXRA Antibody (M01299, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488

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conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse 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.

1 Publications Citing This Product

1. PubMed ID: 10.1539/joh.L8084, Effects of Chronic Noise Exposure on Spatial Learning and Memory of Rats in Relation to Neurotransmitters and NMDAR2B Alteration in the Hippocampus

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