BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-BCAR4 Antibody Picoband®

Catalog Number: A34011

About BCAR4

This gene produces a spliced long non-coding RNA (lncRNA) that has been implicated in breast cancer metastasis. It was originally identified in a screen for genes responsible for the development of resistance to anti-estrogens in breast cancer cells. It is thought that release of CCL21 enables this lncRNA to bind to the SNIP1 and PNUTS transcription factors, thereby activating a non-canonical GLI-dependent hedgehog signaling pathway that promotes cancer cell migration and invasion. A similar gene in cow expresses a protein in mature oocytes and preimplantation embryos. Alternatively spliced transcript variants have been identified.

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Overview

Product Name	Anti-BCAR4 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-BCAR4 Antibody Picoband® catalog # A34011. Tested in WB, Flow Cytometry 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	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	D3DUG6

Technical Details

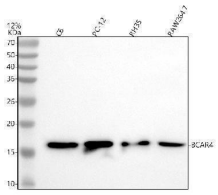
Immunogen	A synthesized peptide derived from human BCAR4.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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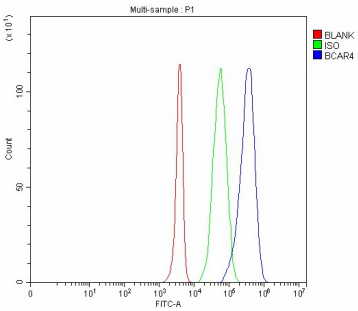
	blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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Anti-BCAR4 Antibody Picoband® (A34011) Images



Western blot analysis of BCAR4 using anti-BCAR4 antibody (A34011). 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: rat C6 whole cell lysates, Lane 2: rat PC-12 whole cell lysates, Lane 3: rat RH35 whole cell lysates, Lane 4:mouse RAW265.7 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-BCAR4 antigen affinity purified polyclonal antibody (Catalog # A34011) 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 BCAR4 at approximately 13 kDa. The expected band size for BCAR4 is at 13 kDa.



Flow Cytometry analysis of 293T cells using anti-BCAR4 antibody (A34011). Overlay histogram showing 293T cells stained with A34011 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-BCAR4 Antibody (A34011, 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.

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