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Anti-RHOF Antibody Picoband™

Catalog Number: A08913-1

About RHOF

Rho, the Ras-related small GTPase, is responsible for the regulation of actin-based cytoskeletal structures including stress fibers, focal adhesions and the contractile ring apparatus. Rho proteins function as molecular switches that are able to turn cytokinesis on and off. Although little is known about signaling downstream of Rho, a host of putative Rho effector proteins have been described. Rho F (ras homolog gene family, member F), also known as RIF or ARHF, is a 211 amino acid membrane protein that localizes to the cytoplasmic side of the plasma membrane. Belonging to the small GTPase superfamily and the Rho family, Rho F functions cooperatively with Cdc42 and Rac to generate additional cytoskeletal structures, such as increasing variation of actin-based morphology. Rho F exists as two alternatively spliced isoforms and is encoded by a gene located on human chromosome 12q24.31.

Overview

Product Name	Anti-RHOF Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RHOF Antibody Picoband™ catalog # A08913-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
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	Q9HBH0

Technical Details

Immunogen	E.coli-derived human RHOF recombinant protein (Position: Y39-K204).
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 ug/ml.

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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, 0.25-0.5ug/ml, Human, Mouse, Rat Flow Cytometry, 1-3ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5ug/ml, Human

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Anti-RHOF Antibody Picoband™ (A08913-1) Images

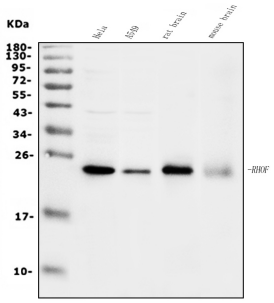

Figure 1. Western blot analysis of RHOF using anti-RHOF antibody (A08913-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human A549 whole cell lysates,
Lane 3: rat brain tissue lysates,
Lane 4: mouse brain 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 rabbit anti-RHOF antigen affinity purified polyclonal antibody (Catalog # A08913-1) 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 RHOF at approximately 23KD. The expected band size for RHOF is at 23KD.

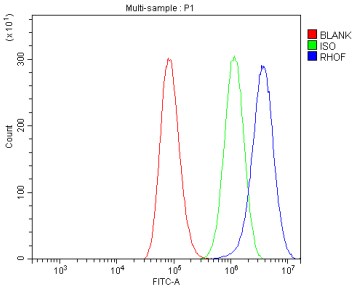

Figure 2. Flow Cytometry analysis of A549 cells using anti-RHOF antibody (A08913-1).
Overlay histogram showing A549 cells stained with A08913-1 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RHOF Antibody (A08913-1, 1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.