

Anti-RIOK2 Antibody Picoband™

Catalog Number: A09743-1

About RIOK2

RIO kinase 2 (RIOK2) is a member of the RIO family of atypical serine protein kinases first characterized in yeast. There are three RIO kinase subfamilies: RIO1, RIO2, and RIO3. RIOK1 and RIOK2 proteins are present in organisms from Archaea to humans. Studies of RIO kinases in yeast indicate that they play a role in ribosome biogenesis. Human RIOK2 has been shown to be a part of a late 40S pre-ribosomal particle and have influence on 40S maturation.

Overview

Product Name	Anti-RIOK2 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-RIOK2 Antibody Picoband™ catalog # A09743-1. 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	Q9BVS4

Technical Details

Immunogen	E.coli-derived human RIOK2 recombinant protein (Position: D16-L283).
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/1x1x10⁶ cells, Human

Direct ELISA, 0.1-0.5 µg/ml, Human

Anti-RIOK2 Antibody Picoband™ (A09743-1) Images

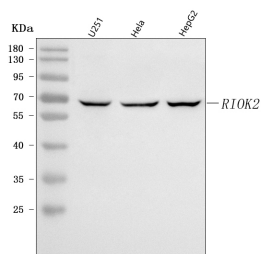


Figure 1. Western blot analysis of RIOK2 using anti-RIOK2 antibody (A09743-1).

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 30 ug of sample under reducing conditions.

Lane 1: human U251 whole cell lysates,

Lane 2: human Hela whole cell lysates,

Lane 3: human HepG2 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-RIOK2 antigen affinity purified polyclonal antibody (Catalog # A09743-1) 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 RIOK2 at approximately 63 kDa. The expected band size for RIOK2 is at 63 kDa.

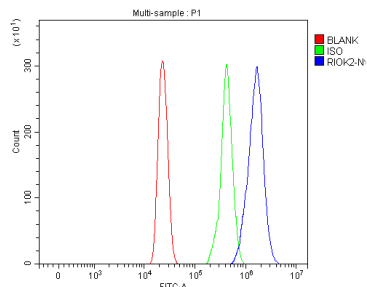


Figure 2. Flow Cytometry analysis of HL-60 cells using anti-RIOK2 antibody (A09743-1).

Overlay histogram showing HL-60 cells stained with A09743-1 (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-RIOK2 Antibody (A09743-1, 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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