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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-RAI14 Antibody Picoband™

**Catalog Number:** A09059-1

## About RAI14

Ankycorbin is a protein that in humans is encoded by the RAI14 gene. Predicted to enable actin binding activity. Predicted to be involved in several processes, including apoptotic signaling pathway; regulation of NIK/NF-kappaB signaling; and spermatogenesis. Located in cytosol; fibrillar center; and nucleoplasm.

## Overview

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| Product Name | Anti-RAI14 Antibody Picoband™ |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-RAI14 Antibody Picoband™ catalog # A09059-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human, Mouse. |
| Application | ELISA, 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 | Q9P0K7 |

## Technical Details

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| Immunogen | E.coli-derived human RAI14 recombinant protein (Position: G53-E680). |
| 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. |

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|---|---|
| | If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows:<br>Boster Bio's internal QC testing used:<br>Western blot, 0.25-0.5 μg/ml, Human, Mouse<br>Flow Cytometry, 1-3 μg/1x$10^6$ cells, Human<br>Direct ELISA, 0.1-0.5 μg/ml, Human |

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# Anti-RAI14 Antibody Picoband™ (A09059-1) Images

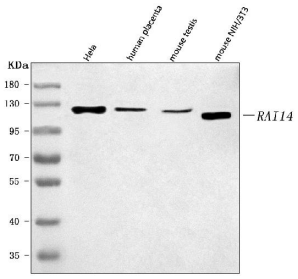


Figure 1. Western blot analysis of RAI14 using anti-RAI14 antibody (A09059-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human placenta tissue lysates,
Lane 3: mouse testis tissue lysates,
Lane 4: mouse NIH/3T3 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-RAI14 antigen affinity purified polyclonal antibody (Catalog # A09059-1) 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 RAI14 at approximately 120 kDa. The expected band size for RAI14 is at 110 kDa.

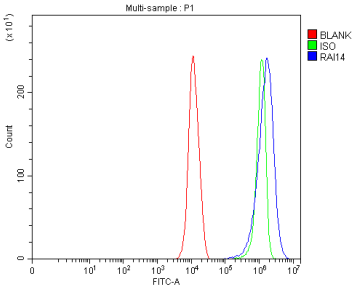


Figure 2. Flow Cytometry analysis of PC-3 cells using anti-RAI14 antibody (A09059-1).
Overlay histogram showing PC-3 cells stained with A09059-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RAI14 Antibody (A09059-1, 1 ug/1x$10^6$ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x$10^6$ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x$10^6$) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

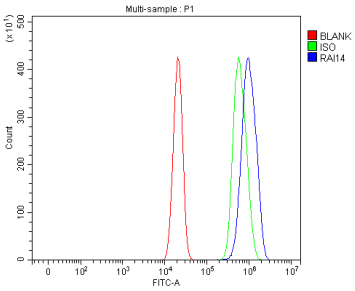


Figure 3. Flow Cytometry analysis of U2OS cells using anti-RAI14 antibody (A09059-1).
Overlay histogram showing U2OS cells stained with A09059-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RAI14 Antibody (A09059-1, 1 ug/1x$10^6$ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x$10^6$ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x$10^6$) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

## Submit a product review to Biocompare.com

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