

## Anti-RAB14 Antibody Picoband™

Catalog Number: PB9815

### About RAB14

Ras-related protein Rab-14 is a protein that in humans is encoded by the RAB14 gene. It is mapped to 9q33.2 based on an alignment of the RAB14 sequence with the genomic sequence. RAB14 belongs to the large RAB family of low molecular mass GTPases that are involved in intracellular membrane trafficking. These proteins act as molecular switches that flip between an inactive GDP-bound state and an active GTP-bound state in which they recruit downstream effector proteins onto membranes.

### Overview

|                      |                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-RAB14 Antibody Picoband™                                                                                                                                                                         |
| Reactive Species     | Human, Rat                                                                                                                                                                                            |
| Description          | Boster Bio Anti-RAB14 Antibody Picoband™ catalog # PB9815. Tested in WB applications. This antibody reacts with Human, Rat.                                                                           |
| Application          | WB                                                                                                                                                                                                    |
| Clonality            | Polyclonal                                                                                                                                                                                            |
| Formulation          | Each vial contains 5mg BSA, 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                 | Rabbit                                                                                                                                                                                                |
| Uniprot ID           | P61106                                                                                                                                                                                                |

### Technical Details

|                               |                                                                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | A synthetic peptide corresponding to a sequence at the C-terminus of human RAB14, identical to the related mouse and rat sequences. |
| Predicted Reactive Species    | Hamster                                                                                                                             |
| 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.                                                           |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purification        | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat</p> |

## Anti-RAB14 Antibody Picoband™ (PB9815) Images

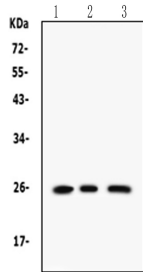


Figure 1. Western blot analysis of RAB14 using anti-RAB14 antibody (PB9815).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.

Lane 1: Rat Brain Tissue Lysate at 50ug,

Lane 2: RAJI Whole Cell Lysate at 40ug,

Lane 3: SMMC Whole Cell Lysate at 40ug.

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-RAB14 antigen affinity purified polyclonal antibody (Catalog # PB9815) 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 RAB14 at approximately 24 kDa. The expected band size for RAB14 is at 24 kDa.

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