

## Anti-RALBP1 Antibody Picoband™ (monoclonal, 2E11)

Catalog Number: M01403-2

### About RALBP1

RalA-binding protein 1 is a protein that in humans is encoded by the RALBP1 gene. Small G proteins, such as RAL, have GDP-bound inactive and GTP-bound active forms, which shift from the inactive to the active state through the action of RALGDS, which in turn is activated by RAS. RALBP1 plays a role in receptor-mediated endocytosis and is a downstream effector of the small GTP-binding protein RAL. RALBP1 is also the dominant transporter of lipid peroxidation-derived glutathione conjugates and participates in several mitotic events, including inactivation of endocytosis and separation and polar movement of centrioles and appropriate distribution of mitochondria to daughter cells following mitosis.

### Overview

|                      |                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-RALBP1 Antibody Picoband™ (monoclonal, 2E11)                                                                                                                                                     |
| Reactive Species     | Human                                                                                                                                                                                                 |
| Description          | Boster Bio Anti-RALBP1 Antibody Picoband™ (monoclonal, 2E11) catalog # M01403-2. Tested in Flow Cytometry, WB applications. This antibody reacts with Human.                                          |
| Application          | Flow Cytometry, WB                                                                                                                                                                                    |
| Clonality            | Monoclonal 2E11                                                                                                                                                                                       |
| Formulation          | Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                             |
| 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                 | Mouse                                                                                                                                                                                                 |
| Uniprot ID           | Q15311                                                                                                                                                                                                |

### Technical Details

|                               |                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------|
| Immunogen                     | E. coli-derived human RALBP1 recombinant protein (Position: K239-Q506).                        |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot. |
| Cross Reactivity              | No cross-reactivity with other proteins.                                                       |
| Isotype                       | Mouse IgG2a                                                                                    |
| Form                          | Lyophilized                                                                                    |
| Concentration                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/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, 0.25-0.5ug/ml, Human

Flow Cytometry, 1-3ug/1x10<sup>6</sup> cells, Human

## Anti-RALBP1 Antibody Picoband™ (monoclonal, 2E11) (M01403-2) Images

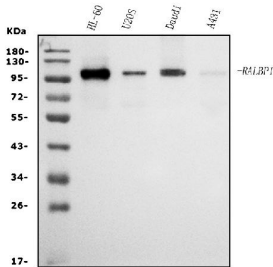


Figure 1. Western blot analysis of RALBP1 using anti-RALBP1 antibody (M01403-2).

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 HL-60 whole cell lysates,

Lane 2: human U20S whole cell lysates,

Lane 3: human Daudi whole cell lysates,

Lane 4: human A431 whole cell 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 mouse anti-RALBP1 antigen affinity purified monoclonal antibody (Catalog # M01403-2) 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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for RALBP1 at approximately 95KD. The expected band size for RALBP1 is at 95KD.

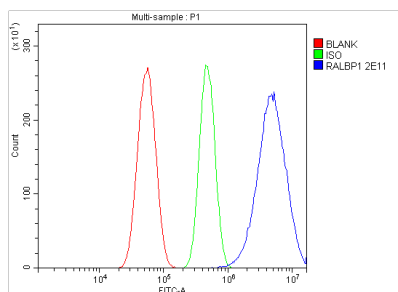


Figure 2. Flow Cytometry analysis of U87 cells using anti-RALBP1 antibody (M01403-2).

Overlay histogram showing U87 cells stained with M01403-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-RALBP1 Antibody (M01403-2, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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