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antibody and ELISA experts

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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 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	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.
Isotype	Mouse IgG2a
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 □g/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. 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□g/ml, Human Flow Cytometry, 1-3□g/1x10^6 cells, Human For protocols, please visit https://www.bosterbio.com/protocol-and-troubleshooting/

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

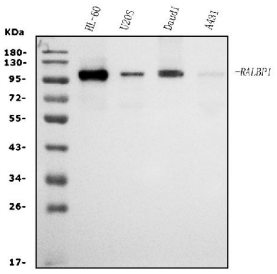

Figure 1. Western blot analysis of RALBP1 using anti-RALBP1 antibody (M01403-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.
Lane 1: human HL-60 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.

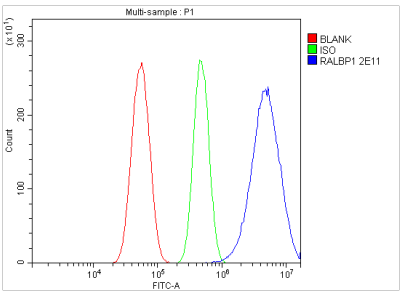

Figure 2. Flow Cytometry analysis of U87 cells using anti-RALBP1 antibody (M01403-2).
Overlay histogram showing U87 cells stained with M01403-2 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-RALBP1 Antibody (M01403-2, 1ug/1x10^6 cells) for 30 min at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