

Anti-RAB7A Antibody Picoband™

Catalog Number: A02409-2

About RAB7A

Ras-related protein Rab-7a is a protein that in humans is encoded by the RAB7A gene. RAB7A functions as a key regulator in endo-lysosomal trafficking, governs early-to-late endosomal maturation, microtubule minus-end as well as plus-end directed endosomal migration and positions, and endosome-lysosome transport through different protein-protein interaction cascades. Furthermore, RAB7A is involved in regulation of some specialized endosomal membrane trafficking, such as maturation of melanosomes through modulation of SOX10 and the oncogene MYC. Mutations in the lysosomal pathway result in tumor progression in melanoma cells.

Overview

Product Name	Anti-RAB7A Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RAB7A Antibody Picoband™ catalog # A02409-2. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, 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	P51149

Technical Details

Immunogen	E.coli-derived human RAB7A recombinant protein (Position: A156-R197).
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, Mouse, Rat

ELISA, 0.1-0.5 µg/ml, Human

Anti-RAB7A Antibody Picoband™ (A02409-2) Images

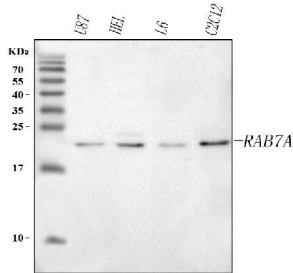


Figure 1. Western blot analysis of RAB7A using anti-RAB7A antibody (A02409-2).

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 30 ug of sample under reducing conditions.

Lane 1: human U87 whole cell lysates,

Lane 2: human HEL whole cell lysates,

Lane 3: rat L6 whole cell lysates,

Lane 4: mouse C2C12 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-

RAB7A antigen affinity purified polyclonal antibody (Catalog

A02409-2) 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-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 RAB7A at approximately 23

kDa. The expected band size for RAB7A is at 23 kDa.

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