

Anti-RAB7 Antibody (C-term)

Catalog Number: A02409

About RAB7A

RAB family members are small, RAS-related GTP-binding proteins that are important regulators of vesicular transport. Each RAB protein targets multiple proteins that act in exocytic / endocytic pathways. RAB7 is a RAB family member that regulates vesicle traffic in the late endosomes and also from late endosomes to lysosomes. This protein is also involved in the cellular vacuolation of the VacA cytotoxin of *Helicobacter pylori*.

Overview

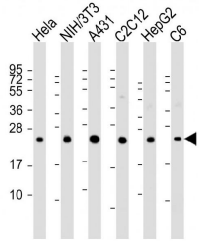
Product Name	Anti-RAB7 Antibody (C-term)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RAB7 Antibody (C-term) (Catalog # A02409). Tested in WB, Flow Cytometry, IHC-P application(s). This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P51149

Technical Details

Immunogen	This RAB7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 176-204 amino acids from the C-terminal region of human RAB7.
Predicted Reactive Species	Mouse
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
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: WB: 1:2000 IHC-P: 1:25

	FC: 1:25
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Anti-RAB7 Antibody (C-term) (A02409) Images



All lanes : Anti-RAB7 Antibody (C-term) at 1:2000 dilution

Lane 1: HeLa whole cell lysate

Lane 2: NIH/3T3 whole cell lysate

Lane 3: A431 whole cell lysate

Lane 4: C2C12 whole cell lysate

Lane 5: HepG2 whole cell lysate

Lane 6: C6 whole cell lysate

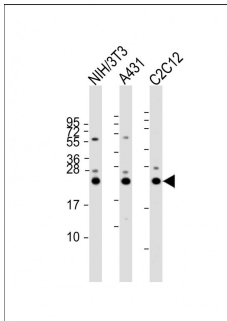
Lysates/proteins at 20 µg per lane.

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.

Predicted band size : 23 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



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Lane 1: NIH/3T3 whole cell lysate

Lane 2: A431 whole cell lysate

Lane 3: C2C12 whole cell lysate

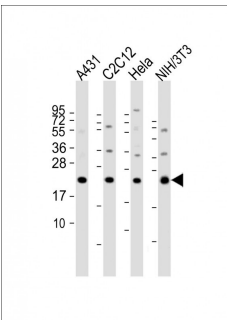
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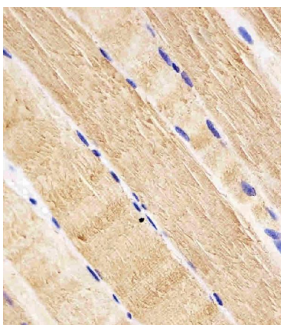
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A02409 staining RAB7 in human skeletal muscle tissue

sections by Immunohistochemistry (IHC-P

-paraformaldehyde-fixed, paraffin-embedded sections).

Tissue was fixed with formaldehyde and blocked with 3%

BSA for 0.5 hour at room temperature; antigen retrieval was

by heat mediation with a citrate buffer (pH6). Samples were

incubated with primary antibody (1/25) for 1 hours at 37°C.

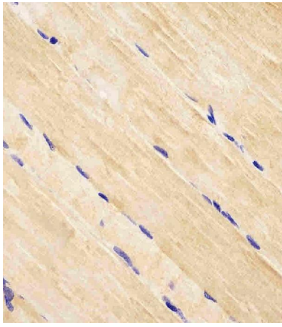
A undiluted biotinylated goat polyvalent antibody was used

as the secondary antibody.

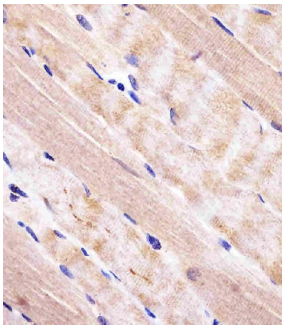
A02409 staining RAB7 in human skeletal muscle tissue

sections by Immunohistochemistry (IHC-P

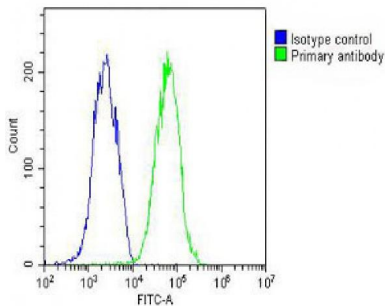
-paraformaldehyde-fixed, paraffin-embedded sections).



Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



A02409 staining RAB7 in human skeletal muscle tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing HepG2 cells stained with A02409 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (A02409, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

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