

Rabbit Rab9/RAB9A Polyclonal Antibody | anti-RAB9A antibody

Anti-Rab9/RAB9A Antibody

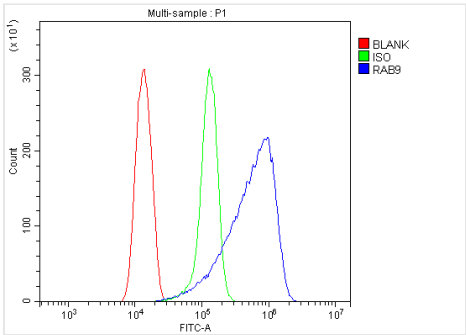
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125757	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Rab9/RAB9A; Polyclonal Antibody; Anti-Rab9/RAB9A Antibody; RAB9A; RAB9; Ras-related protein Rab-9A; member RAS oncogene family; anti-RAB9A antibody

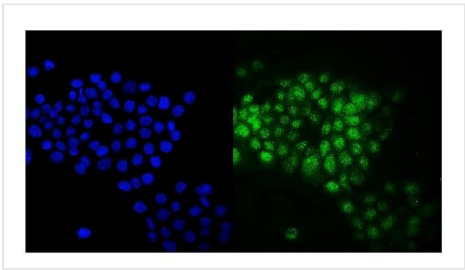
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Rab9/RAB9A detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-RAB9A antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Rab9/RAB9A recombinant protein (Position: K4-D171).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



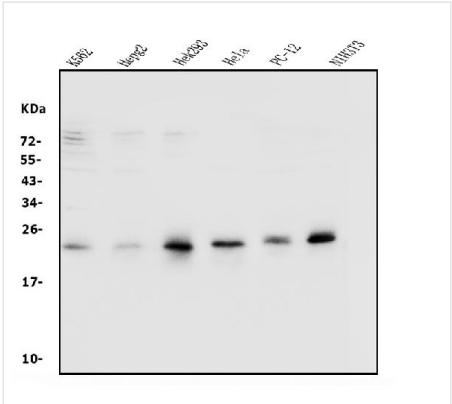
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Hela cells using anti-Rab9/RAB9A antibody (AAA125757).Overlay histogram showing Hela cells stained with AAA125757 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Rab9/RAB9A Antibody (AAA125757,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of Rab9/RAB9A using anti-Rab9/RAB9A antibody (AAA125757).Rab9/RAB9A was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5μg/mL rabbit anti-Rab9/RAB9A Antibody (AAA125757) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Rab9/RAB9A using anti-Rab9/RAB9A antibody (AAA125757).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 50ug of sample under reducing conditions.Lane 1: human K562 whole cell lysatesLane 2: human HepG2 whole cell lysatesLane 3: human HEK293 whole cell lysatesLane 4: human Hela whole cell lysatesLane 5: rat PC-12 whole cell lysatesLane 6: mouse NIH/3T3 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 rabbit anti-Rab9/RAB9A antigen affinity purified polyclonal antibody (Catalog # AAA125757) at 0. 25 μg/mL overnight at 4 degree 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 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Rab9/RAB9A at approximately 23KD. The expected band size for Rab9/RAB9A is at 23KD.

ADDITIONAL INFORMATION

Related Product Information for anti-RAB9A antibody

Ras-related protein Rab-9A, also called RAB9, is a protein that in humans is encoded by the RAB9A gene. This gene is mapped to Xp22. 2. RAB9 has been localized to components of the endocytic/exocytic pathway and has been implicated in recycling of membrane receptors. It has been found that downregulation of RAB9A gene expression in HeLa cells induced severe cell vacuolation. RAB9A GTPase is directly bound by TIP47 in its active, GTP-bound conformation. Moreover, RAB9A increases the affinity of TIP47 for its cargo. What's more, this gene may involved in the transport of proteins between the endosomes and the trans Golgi network. RAB9A has been shown to interact with RABEPK and TIP47.

References	1. Carroll, K. S., Hanna, J., Simon, I., Krise, J., Barbero, P., Pfeffer, S. R. Role of Rab9 GTPase in facilitating receptor recruitment by TIP47. Science 292: 1373-1376, 2001. 2. Davies, J. P., Cotter, P. D., Ioannou, Y. A. Cloning and mapping of human Rab7 and Rab9 cDNA sequences and identification of a Rab9 pseudogene. Genomics 41: 131-134, 1997.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1710003
NCBI GeneID	9367
UniProt Accession #	P51151; Q6ICN1; A8K390
Molecular Weight	22,838 Da
NCBI Official Full Name	Ras-related protein Rab-9A
NCBI Official Synonym Full Names	RAB9A, member RAS oncogene family
NCBI Official Symbol	RAB9A
NCBI Official Synonym Symbols	RAB9
NCBI Protein Information	ras-related protein Rab-9A; RAB9, member RAS oncogene family
UniProt Protein Name	Ras-related protein Rab-9A
UniProt Gene Name	RAB9A
UniProt Synonym Gene Names	RAB9
UniProt Entry Name	RAB9A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.