

Rabbit RAB14 Polyclonal Antibody | anti-RAB14 antibody

Anti-RAB14 Antibody Picoband

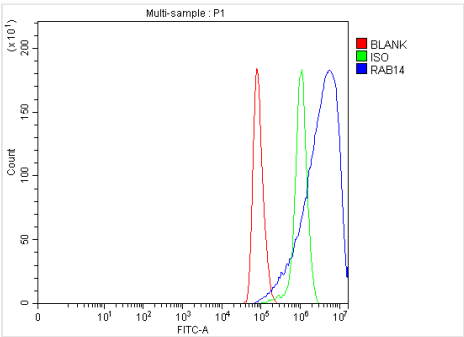
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127221	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RAB14; Polyclonal Antibody; Anti-RAB14 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-RAB14 antibody

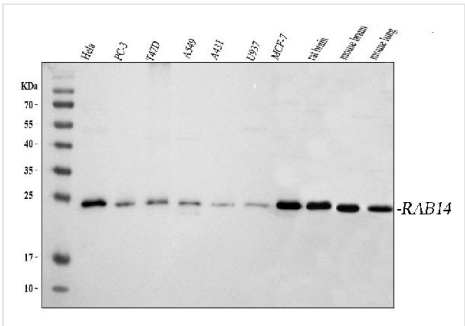
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-RAB14 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RAB14 recombinant protein (Position: D108-C215).
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of Hela cells using anti-RAB14 antibody (AAA127221).Overlay histogram showing Hela cells stained with AAA127221 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RAB14 Antibody (AAA127221, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of RAB14 using anti-RAB14 antibody (AAA127221).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 Hela whole cell lysates,Lane 2: human PC-3 whole cell lysates,Lane 3: human T-47D whole cell lysates,Lane 4: human A549 whole cell lysates,Lane 5: human A431 whole cell lysates,Lane 6: human U937 whole cell lysates,Lane 7: human MCF-7 whole cell lysates,Lane 8: rat brain tissue lysates,Lane 9: mouse brain tissue lysates,Lane 10: mouse lung tissue 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-RAB14 antigen affinity purified polyclonal antibody (#AAA127221) at 0.5ug/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 1:5000 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 RAB14 at approximately 24 kDa. The expected band size for RAB14 is at 24 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RAB14 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-RAB14 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. "Entrez Gene: RAB14 RAB14, member RAS oncogene family".2. de Leeuw HP, Koster PM, Calafat J, Janssen H, van Zonneveld AJ, van Mourik JA, Voorberg J (Dec 1998). "Small GTP-binding proteins in human endothelial cells". Br J Haematol 103 (1): 15-9.3. Junutula JR, De Maziere AM, Peden AA, Ervin KE, Advani RJ, van Dijk SM, Klumperman J, Scheller RH (Apr 2004). "Rab14 is involved in membrane trafficking between the Golgi complex and endosomes". Mol Biol Cell15 (5): 2218-29.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923483
NCBI GeneID	51552
NCBI Accession #	NP_057406.2
NCBI GenBank Nucleotide #	NM_016322.3
UniProt Accession #	P61106; P35287; Q5JVD4; Q6Q7K5; Q969L0; Q9UI11; B3KR31
Molecular Weight	23,897 Da
NCBI Official Full Name	ras-related protein Rab-14
NCBI Official Synonym Full Names	RAB14, member RAS oncogene family
NCBI Official Symbol	RAB14
NCBI Official Synonym Symbols	FBP; RAB-14

NCBI Protein Information	ras-related protein Rab-14; F protein-binding protein 1; bA165P4.3 (member RAS oncogene family); small GTP binding protein RAB14
UniProt Protein Name	Ras-related protein Rab-14
UniProt Gene Name	RAB14
UniProt Entry Name	RAB14_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rab14-antibody-flow-cytometry-western-blot-elisa/127221>