

Rabbit RAB1B Polyclonal Antibody | anti-RAB1B antibody

RAB1B Antibody

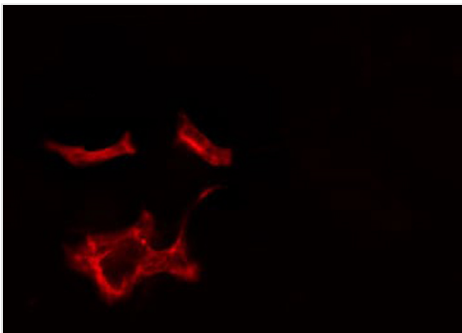
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328128	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

RAB1B; Polyclonal Antibody; RAB1B Antibody; RAB1B member RAS oncogene family; RAB1B_HUMAN; Ras related protein Rab1B; Ras-related protein Rab-1B; Small GTP binding protein; anti-RAB1B antibody

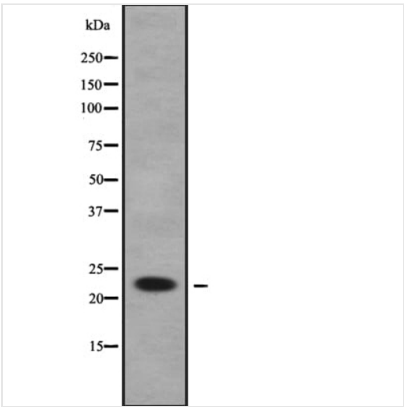
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RAB1B antibody detects endogenous levels of total RAB1B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	201
Applicable Applications for anti-RAB1B antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RAB1B
Subcellular Location	Membrane. Cytoplasm. Targeted by REP1 to membranes of specific subcellular compartments including endoplasmic reticulum, golgi apparatus, and intermediate vesicles between these two compartments. In the GDP-form, colocalizes with GDI in the cytoplasm.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



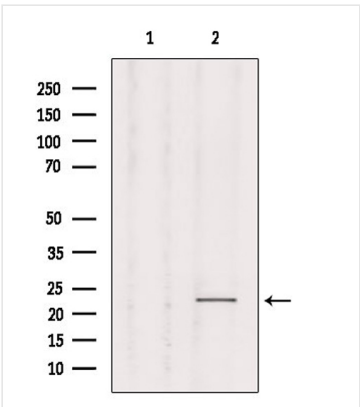
IF (Immunofluorescence)

AAA328128 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



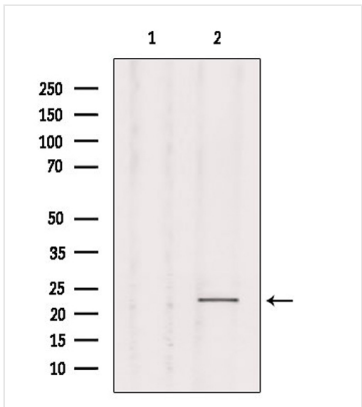
WB (Western Blot)

Western blot analysis of RAB1B using COLO205 whole cell lysates



WB (Western Blot)

Western blot analysis of extracts from Hela, using RAB1B Antibody. Lane 1 was treated with the blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from HepG2, using RAB1B Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RAB1B antibody

Function: The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. RAB1B regulates vesicular transport between the endoplasmic reticulum and successive Golgi compartments. Plays a role in the initial events of the autophagic vacuole development which take place at specialized regions of the endoplasmic reticulum.

Subunit Structure: Interacts with MICAL1 and MICAL2. Interacts (GTP-bound form) with MICALCL, MICAL1 and MILCAL3. Interacts with GDI1; the interaction requires the GDP-bound state. Interacts with CHM/REP1; the interaction requires the GDP-bound form and is necessary for prenylation by GGTase II.

Post-translational Modifications: Prenylated; by GGTase II, only after interaction of the substrate with Rab escort protein 1 (REP1). AMPylation at Tyr-77 by L.pneumophila DrrA occurs in the switch 2 region and leads to moderate inactivation of the GTPase activity. It appears to prolong the lifetime of the GTP state of RAB1B by restricting access of GTPase effectors to switch 2 and blocking effector-stimulated GTP hydrolysis, thereby rendering RAB1B constitutively active. It is later de-AMPylation by L.pneumophila SidD, releasing RAB1B from bacterial phagosomes. Phosphocholinated at Ser-76 by L.pneumophila AnkX, leading to displace GDP dissociation inhibitors (GDI). Both GDP-bound and GTP-bound forms can be phosphocholinated. Dephosphocholinated by L.pneumophila Lem3, restoring accessibility to L.pneumophila GTPase effector LepB.

Similarity: Belongs to the small GTPase superfamily. Rab family.

NCBI AND UNIPROT INFORMATION

NCBI GI # 13569962

NCBI GeneID	81876
NCBI Accession #	NP_112243.1
NCBI GenBank Nucleotide #	NM_030981.2
UniProt Accession #	Q9H0U4 ; A8K7S1
Molecular Weight	Observed: 22 kDa Predicted: 23 kDa
NCBI Official Full Name	ras-related protein Rab-1B
NCBI Official Synonym Full Names	RAB1B, member RAS oncogene family
NCBI Official Symbol	RAB1B
NCBI Protein Information	ras-related protein Rab-1B
UniProt Protein Name	Ras-related protein Rab-1B
UniProt Gene Name	RAB1B

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/rab1b-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/328128>