

**RAB1B Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13810b**

**Specification**

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**RAB1B Antibody (C-term) - Product Information**

Application	WB, IHC-P-Leica,E
Primary Accession	<a href="#">O9H0U4</a>
Other Accession	<a href="#">O92928</a> , <a href="#">P10536</a> , <a href="#">O06AU7</a> , <a href="#">O9D1G1</a> , <a href="#">O4R8X3</a> , <a href="#">O2HJH2</a> , <a href="#">NP_112243.1</a>
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Monkey, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	166-194

**RAB1B Antibody (C-term) - Additional Information**

**Gene ID** 81876

**Other Names**

Ras-related protein Rab-1B, RAB1B

**Target/Specificity**

This RAB1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 166-194 amino acids from the C-terminal region of human RAB1B.

**Dilution**

WB~~1:1000  
IHC-P-Leica~~1:500

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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.

**Precautions**

RAB1B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RAB1B Antibody (C-term) - Protein Information**

**Name** RAB1B

**Function** The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:[20545908](#), PubMed:[9437002](#)). 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 (PubMed:[9437002](#)). Plays a role in the initial events of the autophagic vacuole development which take place at specialized regions of the endoplasmic reticulum (PubMed:[20545908](#)). Regulates vesicular transport between the endoplasmic reticulum and successive Golgi compartments (By similarity). Required to modulate the compacted morphology of the Golgi (PubMed:[26209634](#)). Promotes the recruitment of lipid phosphatase MTMR6 to the endoplasmic reticulum-Golgi intermediate compartment (By similarity).

#### Cellular Location

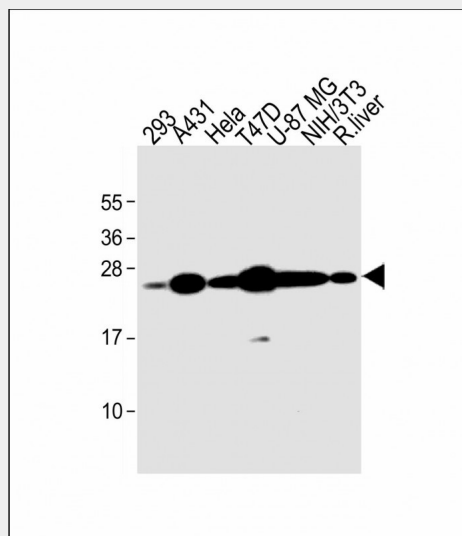
Cytoplasm. Membrane; Lipid-anchor; Cytoplasmic side. Preautophagosomal structure membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P10536}. Note=Targeted by REP1 to membranes of specific subcellular compartments including endoplasmic reticulum, Golgi apparatus, and intermediate vesicles between these two compartments (PubMed:11389151). In the GDP-form, colocalizes with GDI in the cytoplasm (PubMed:11389151). Co-localizes with MTMR6 to the endoplasmic reticulum-Golgi intermediate compartment and to the peri- Golgi region (By similarity). {ECO:0000250|UniProtKB:P10536, ECO:0000269|PubMed:11389151}

#### RAB1B Antibody (C-term) - Protocols

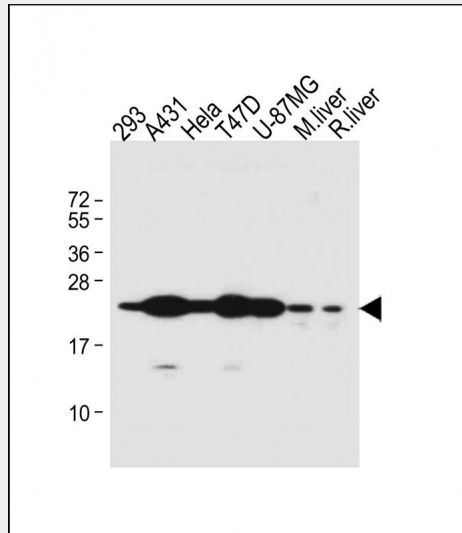
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

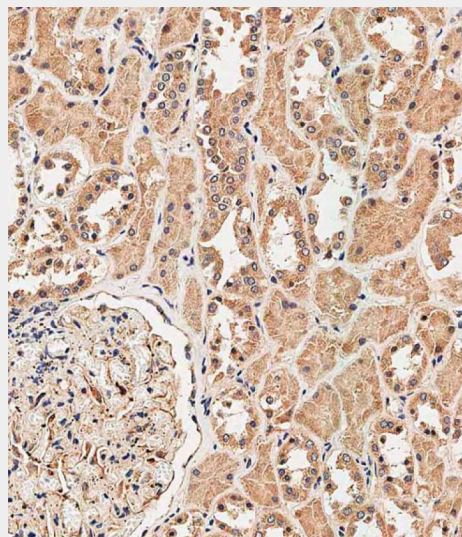
#### RAB1B Antibody (C-term) - Images



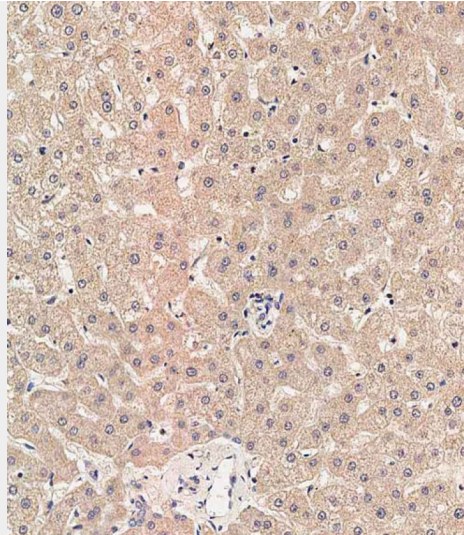
All lanes : Anti-RAB1B Antibody (C-term) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: Hela whole cell lysate Lane 4: T47D whole cell lysate Lane 5: U-87 MG whole cell lysate Lane 6: NIH/3T3 whole cell lysate Lane 7: rat liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 22 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



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Immunohistochemical analysis of paraffin-embedded human kidney tissue using AP13810b performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



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#### **RAB1B Antibody (C-term) - Background**

Members of the RAB protein family, such as RAB1B, are low molecular mass monomeric GTPases localized on the cytoplasmic surfaces of distinct membrane-bound organelles. RAB1B functions in the early secretory pathway and is essential for vesicle transport between the endoplasmic reticulum (ER) and Golgi (Chen et al., 1997 [PubMed 9030196]; Alvarez et al., 2003 [PubMed 12802079]).[supplied by OMIM].

#### **RAB1B Antibody (C-term) - References**

Yamayoshi, S., et al. J. Virol. 84(9):4816-4820(2010)  
Machner, M.P., et al. Science 318(5852):974-977(2007)  
Monetta, P., et al. Mol. Biol. Cell 18(7):2400-2410(2007)  
Wu, C., et al. Proteomics 7(11):1775-1785(2007)  
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :