

RAB1A Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS16657**Specification**

RAB1A Antibody (C-Terminus) - Product Information

| | |
|-------------------|--|
| Application | WB, IHC-P, IF |
| Primary Accession | P62820 |
| Other Accession | 5861 |
| Reactivity | Human, Mouse, Rat, Monkey |
| Host | Goat |
| Clonality | Polyclonal |
| Isotype | IgG |
| Calculated MW | 22678 |
| Dilution | WB~~1:1000 IHC-P~~N/A IF~~1:50~200 |

RAB1A Antibody (C-Terminus) - Additional Information**Gene ID** 5861**Other Names**

RAB1A, GTP binding protein Rab1a, YPT1-related protein, Rab GTPase YPT1 homolog, RAB1, Ras-related protein Rab-1A, YPT1

Target/Specificity

Detects total Rab1 protein by Western blot in the following human, rat and mouse whole cell lysates and transfected cells with GFP-Rab1a and GFP-Rab1b cds.

Reconstitution & Storage

PBS, 20% glycerol, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions

RAB1A Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

RAB1A Antibody (C-Terminus) - Protein Information**Name** RAB1A**Synonyms** RAB1**Function**

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:20639577, PubMed:20639577).

[20861236](http://www.uniprot.org/citations/20861236), PubMed: [21303926](http://www.uniprot.org/citations/21303926), PubMed: [22939626](http://www.uniprot.org/citations/22939626)). Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (PubMed: [20639577](http://www.uniprot.org/citations/20639577), PubMed: [20861236](http://www.uniprot.org/citations/20861236), PubMed: [21303926](http://www.uniprot.org/citations/21303926), PubMed: [22939626](http://www.uniprot.org/citations/22939626)). RAB1A regulates vesicular protein transport from the endoplasmic reticulum (ER) to the Golgi compartment and on to the cell surface, and plays a role in IL-8 and growth hormone secretion (PubMed: [21303926](http://www.uniprot.org/citations/21303926)). Required to modulate the compacted morphology of the Golgi (PubMed: [26209634](http://www.uniprot.org/citations/26209634)). Regulates the level of CASR present at the cell membrane (PubMed: [20861236](http://www.uniprot.org/citations/20861236)). Plays a role in cell adhesion and cell migration, via its role in protein trafficking (PubMed: [20639577](http://www.uniprot.org/citations/20639577)). Plays a role in autophagosome assembly and cellular defense reactions against pathogenic bacteria (PubMed: [22939626](http://www.uniprot.org/citations/22939626)). Plays a role in microtubule-dependent protein transport by early endosomes and in anterograde melanosome transport (By similarity).

Cellular Location

Golgi apparatus. Endoplasmic reticulum. Early endosome. Cytoplasm, cytosol. Membrane. Melanosome {ECO:0000250|UniProtKB:P62821}. Note=Alternates between membrane-associated and cytosolic forms.

Volume

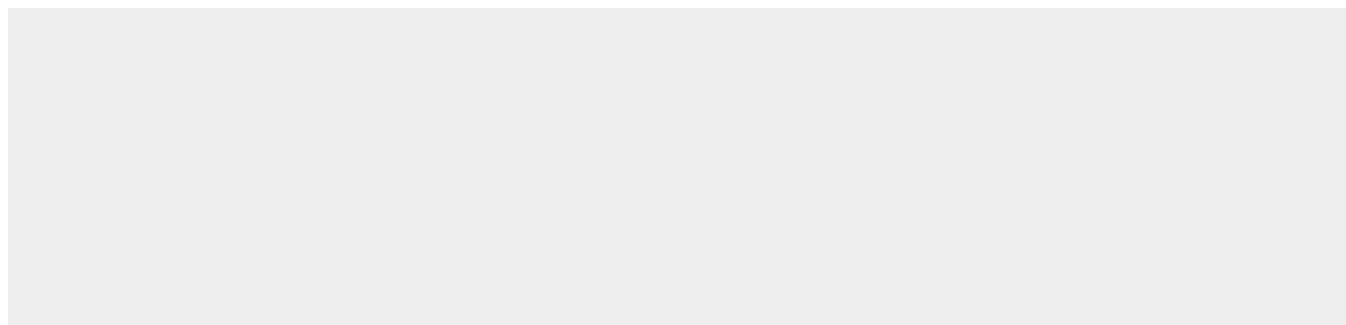
50 µl

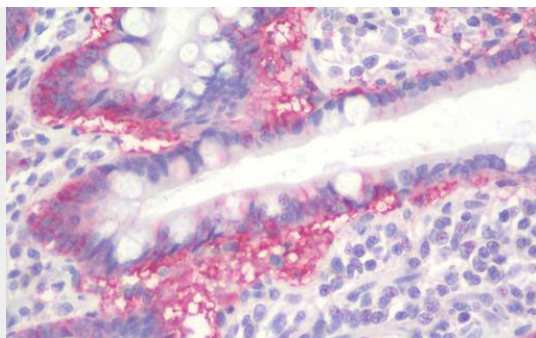
RAB1A Antibody (C-Terminus) - Protocols

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

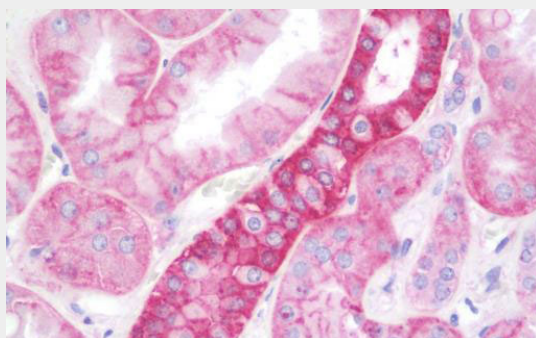
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RAB1A Antibody (C-Terminus) - Images

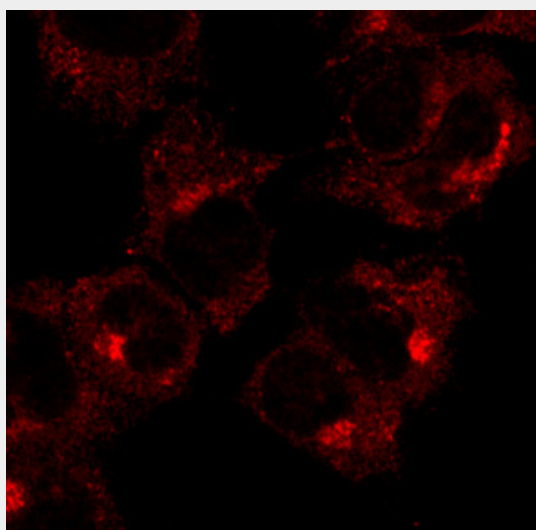




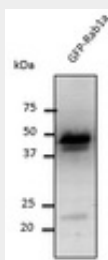
Anti-RAB1A / RAB1 antibody IHC staining of human small intestine.



Anti-RAB1A / RAB1 antibody IHC staining of human kidney.



Immunofluorescence - anti-Rab1 antibody in COS-7 cells at 1:50 dilution.



Western blot.

RAB1A Antibody (C-Terminus) - Background

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RAB1A Antibody (C-Terminus) - References

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Wiemann S.,et al.Genome Res. 11:422-435(2001).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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