10320 Camino Santa Fe, Suite G
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RAB1A Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS16657

Specification

RAB1A Antibody (C-Terminus) - Product Information

Application	**IHC, IF, WB**
Primary Accession	P62820
Other Accession	5861
Reactivity	**Human, Mouse, Rat, Monkey**
Host	**Goat**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**22678**

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:20861236, PubMed:21303926, PubMed: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, PubMed:20861236, PubMed:21303926, PubMed: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). Required to modulate the compacted morphology of the Golgi (PubMed:26209634). Regulates the level of CASR present at the cell membrane (PubMed:20861236). Plays a role in cell adhesion and cell migration, via its role in protein trafficking (PubMed:20639577). Plays a role in autophagosome assembly and cellular defense reactions against pathogenic bacteria (PubMed: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.

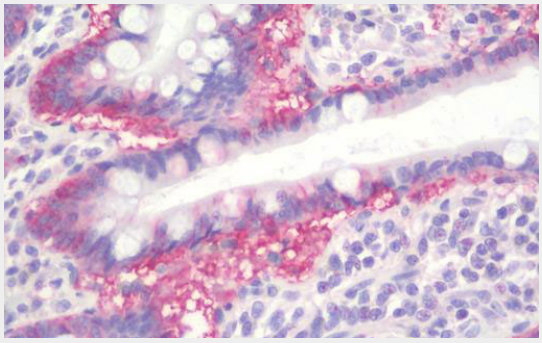
Volume
50 µl

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 Cytomety
- Cell Culture

RAB1A Antibody (C-Terminus) - Images



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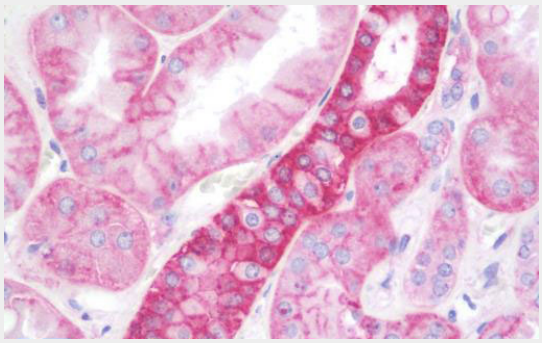
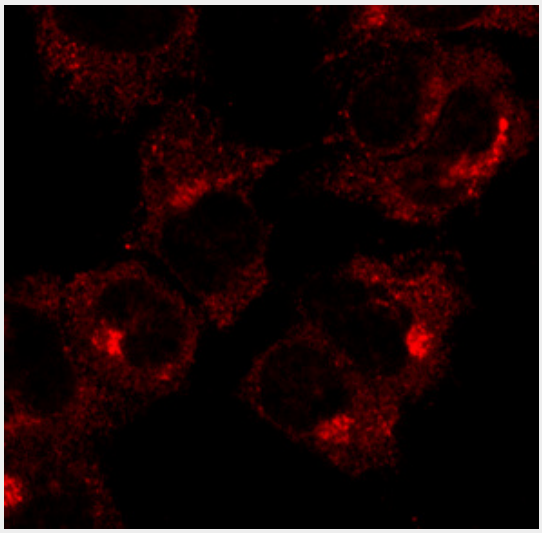
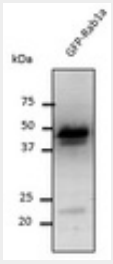
Anti-RAB1A / RAB1 antibody IHC staining of human small intestine.



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

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 sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion. 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. Regulates the level of CASR present at the cell membrane. Plays a role in cell adhesion and cell migration, via its role in protein trafficking. Plays a role in autophagosome assembly and cellular defense reactions against pathogenic bacteria. Plays a role in microtubule-dependent protein transport by early endosomes and in anterograde melanosome transport.

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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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