

**RAB1A antibody - middle region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI13962****Specification****RAB1A antibody - middle region - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P62820</a>
Other Accession	<a href="#">NM_004161</a> , <a href="#">NP_004152</a>
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23kDa KDa

**RAB1A antibody - middle region - Additional Information****Gene ID** 5861**Alias Symbol** **DKFZP564B163, RAB1, YPT1**  
**Other Names**  
Ras-related protein Rab-1A, YPT1-related protein, RAB1A, RAB1**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-RAB1A antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

RAB1A antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

**RAB1A antibody - middle region - 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](http://www.uniprot.org/citations/20639577), PubMed:[20861236](http://www.uniprot.org/citations/20861236), PubMed:[21303926](http://www.uniprot.org/citations/21303926), PubMed:[21303926](http://www.uniprot.org/citations/21303926), PubMed:[21303926](http://www.uniprot.org/citations/21303926)).

href="http://www.uniprot.org/citations/22939626" target="\_blank">22939626</a>). 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:<a href="http://www.uniprot.org/citations/20639577" target="\_blank">20639577</a>, PubMed:<a href="http://www.uniprot.org/citations/20861236" target="\_blank">20861236</a>, PubMed:<a href="http://www.uniprot.org/citations/21303926" target="\_blank">21303926</a>, PubMed:<a href="http://www.uniprot.org/citations/22939626" target="\_blank">22939626</a>). 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:<a href="http://www.uniprot.org/citations/21303926" target="\_blank">21303926</a>). Required to modulate the compacted morphology of the Golgi (PubMed:<a href="http://www.uniprot.org/citations/26209634" target="\_blank">26209634</a>). Regulates the level of CASR present at the cell membrane (PubMed:<a href="http://www.uniprot.org/citations/20861236" target="\_blank">20861236</a>). Plays a role in cell adhesion and cell migration, via its role in protein trafficking (PubMed:<a href="http://www.uniprot.org/citations/20639577" target="\_blank">20639577</a>). Plays a role in autophagosome assembly and cellular defense reactions against pathogenic bacteria (PubMed:<a href="http://www.uniprot.org/citations/22939626" target="\_blank">22939626</a>). Plays a role in microtubule-dependent protein transport by early endosomes and in anterograde melanosome transport (By similarity).

#### Cellular Location

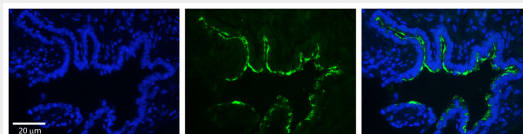
Golgi apparatus. Endoplasmic reticulum. Early endosome. Cytoplasm, cytosol. Membrane. Melanosome {ECO:0000250|UniProtKB:P62821}. Note=Alternates between membrane-associated and cytosolic forms.

#### RAB1A antibody - middle region - 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 - middle region - Images



Rabbit Anti-RAB1A Antibody

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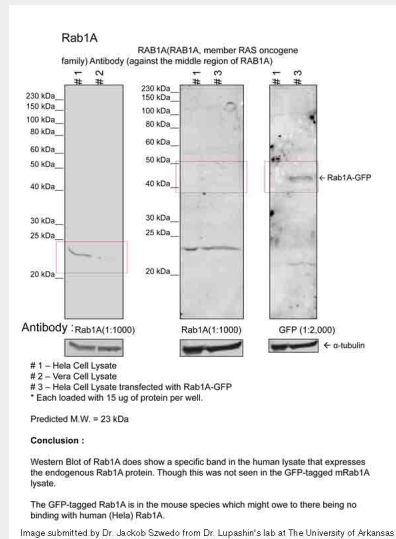
Formalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial Tissue Observed Staining: Cytoplasmic in excellent staining

Primary Antibody

Concentration: 1:100

Secondary Antibody: Donkey anti-Rabbit-Cy3

Secondary Antibody  
Concentration: 1:200  
Magnification: 20X  
Exposure Time: 0.5 - 2.0 sec



Sample Type: 1. Human Cervical Cancer cell lysate (15ug) 2. Monkey Fibroblast cell lysate (15ug) 3. Human Cervical Cancer Cell transfected with Rab1A-GFP (15ug) Primary Dilution: 1:1000  
Secondary Antibody: goat anti-Rabbit Secondary Dilution: 1:40,000 Image Submitted by: Dr. Jakob Szewdo, Dr. Lupashin's Lab University of Arkansas for Medical Sciences See Customer Feedback tab for detailed information.

### RAB1A antibody - middle region - References

- Zahraoui A., et al. *J. Biol. Chem.* 264:12394-12401(1989).  
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).  
Puhl H.L. III, et al. Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.