

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

RAB1A antibody - middle region - Product Information

Application	IHC, WB
Primary Accession	P62820
Other Accession	NM_004161 , NP_004152
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)).

href="http://www.uniprot.org/citations/22939626" target="_blank">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

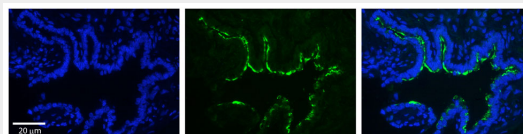
Golgi apparatus. Endoplasmic reticulum. Early endosome. Cytoplasm, cytosol. Membrane. Melanosome {ECO:0000250|UniProtKB:P62821}. Note=Alternates between membrane-associated and cytosolic forms.

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

Catalog Number: AI13962

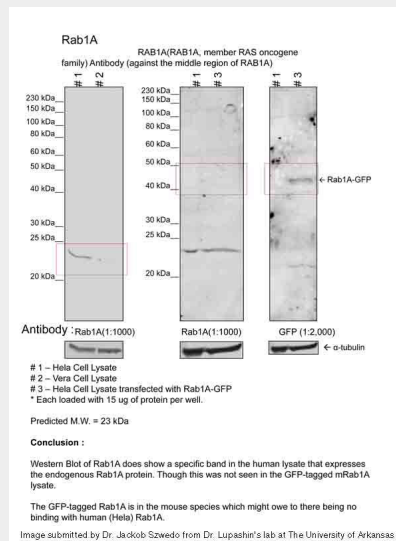
Formalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial Tissue Observed Staining: Cytoplasmic in excellent staining

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 Szewedo, 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.