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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, PubMed:20861236, PubMed:21303926, PubMed:<a

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).

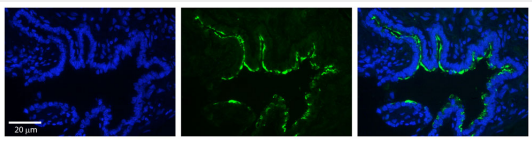
Cellular Location
Golgi apparatus. Endoplasmic reticulum. Early endosome. Cytoplasm, cytosol. Membrane. Melanosome {ECO:0000250|UniProtKB:P62821}. Note=Alternates between membrane- associated and cytosolic forms.

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 Cytomety
- 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

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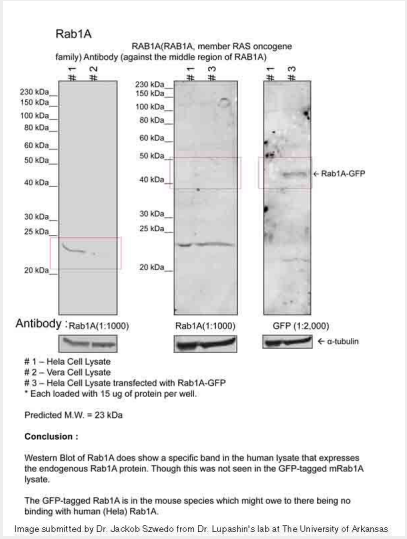
Secondary Antibody
Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec



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 Szwedo, Dr. Lupashin's Lab University of Arkansas for Medical SciencesSee Customer Feedback tab for detailed information.

RAB1A antibody - middle region - 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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