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RAB1A antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13962

Product Information

Application	WB, IHC
Primary Accession	P62820
Other Accession	NM_004161, NP_004152
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22678

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.

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).

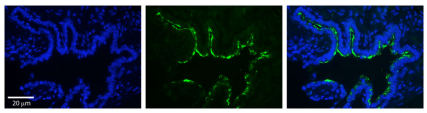
Cellular Location

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

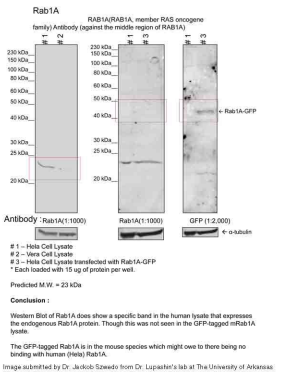
References

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.