

RAB2A antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14677

Product Information

Application	WB
Primary Accession	P61019
Other Accession	NM_002865 , NP_002856
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Dog, Guinea Pig, Horse, Bovine
Predicted Host	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Dog, Guinea Pig, Bovine
Clonality	Rabbit
Calculated MW	Polyclonal 23546

Additional Information

Gene ID	5862
Alias Symbol	RAB2, LHX
Other Names	Ras-related protein Rab-2A, RAB2A, RAB2
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-RAB2A 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	RAB2A antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RAB2A (HGNC:9763)
Synonyms	RAB2
Function	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 active GTP-bound and inactive GDP-bound states. In their active state, drive transport of vesicular carriers from donor organelles to acceptor organelles to regulate the membrane traffic that maintains organelle identity and morphology (PubMed: 37821429). RAB2A regulates autophagy by promoting autophagosome-lysosome fusion via recruitment of the HOPS endosomal tethering complex; this process involves

autophagosomal RAB2A and lysosomal RAB39A recruitment of HOPS subcomplexes VPS39-VPS11 and VPS41-VPS16-VPS18-VPS33A, respectively, which assemble into a functional complex to mediate membrane tethering and SNAREs-driven membrane fusion (PubMed:[37821429](#)). Required for protein transport from the endoplasmic reticulum to the Golgi complex. Regulates the compacted morphology of the Golgi (PubMed:[26209634](#)). Together with RAB2B, redundantly required for efficient autophagic flux (PubMed:[28483915](#)).

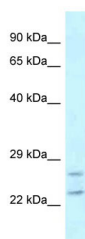
Cellular Location

Endoplasmic reticulum-Golgi intermediate compartment membrane; Lipid-anchor; Cytoplasmic side Melanosome. Endoplasmic reticulum membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid-anchor; Cytoplasmic side. Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250|UniProtKB:P53994}. Cytoplasmic vesicle, autophagosome membrane {ECO:0000250|UniProtKB:P53994}; Lipid-anchor; Cytoplasmic side Note=Localized in the Golgi apparatus in the round spermatids and in the acrosome in the elongating spermatid (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065). {ECO:0000250|UniProtKB:P53994, ECO:0000269|PubMed:17081065}

References

Tachibana K.,et al.Nucleic Acids Res. 16:10368-10368(1988).
Zahraoui A.,et al.J. Biol. Chem. 264:12394-12401(1989).
Puhl H.L. III,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



RAB2A antibody - C-terminal region (AI14677) validated by WB using MDA-MB435S cell lysate at 1µg/ml.RAB2A is strongly supported by BioGPS gene expression data to be expressed in Human MDA-MB435 cells

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