

RAB14 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8601b

Specification

RAB14 Antibody - Product Information

Application	WB,E
Primary Accession	P61106
Other Accession	O5ZKU5 , O91V41 , O5R8Z8
Reactivity	Human
Predicted	Chicken, Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Calculated MW	23897

RAB14 Antibody - Additional Information

Gene ID 51552

Other Names

Ras-related protein Rab-14, RAB14

Target/Specificity

This RAB14 antibody is generated from a mouse immunized with a recombinant protein of human RAB14.

Dilution

WB~~1:2000

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

RAB14 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RAB14 Antibody - Protein Information

Name RAB14 ([HGNC:16524](#))

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 an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes

different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (PubMed:[22595670](#)). Involved in membrane trafficking between the Golgi complex and endosomes during early embryonic development (By similarity). Regulates the Golgi to endosome transport of FGFR-containing vesicles during early development, a key process for developing basement membrane and epiblast and primitive endoderm lineages during early postimplantation development. May act by modulating the kinesin KIF16B-cargo association to endosomes (By similarity). Regulates, together with its guanine nucleotide exchange factor DENND6A, the specific endocytic transport of ADAM10, N-cadherin/CDH2 shedding and cell-cell adhesion (PubMed:[22595670](#)). Mediates endosomal tethering and fusion through the interaction with RUFY1 and RAB4B (PubMed:[20534812](#)).

Cellular Location

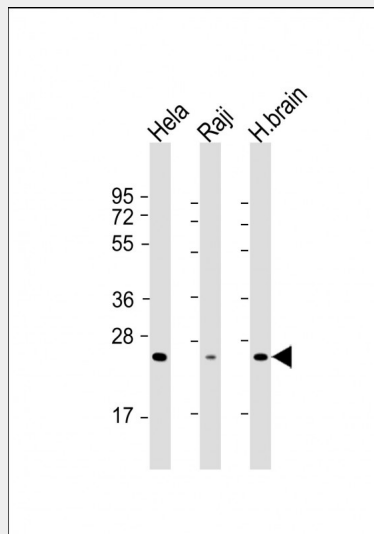
Recycling endosome. Early endosome membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus, trans-Golgi network membrane; Lipid-anchor; Cytoplasmic side. Cytoplasmic vesicle, phagosome. Note=Recruited to recycling endosomes by DENND6A (PubMed:[22595670](#)). Recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:[21255211](#)).

RAB14 Antibody - 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](#)

RAB14 Antibody - Images



All lanes : Anti-RAB14 Antibody at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: Raji whole cell lysate Lane 3: human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 24 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

RAB14 Antibody - Background

Involved in membrane trafficking between the Golgi complex and endosomes during early embryonic development. Regulates the Golgi to endosome transport of FGFR-containing vesicles during early development, a key process for developing basement membrane and epiblast and primitive endoderm lineages during early postimplantation development. May act by modulating the kinesin KIF16B-cargo association to endosomes (By similarity). Regulates, together with its guanine nucleotide exchange factor DENND6A, the specific endocytic transport of ADAM10, N-cadherin/CDH2 shedding and cell-cell adhesion.

RAB14 Antibody - References

Proikas-Cezanne T., et al. Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases.
Ren Y., et al. Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.
Huang Y.-P., et al. Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
Hu R.-M., et al. Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).
Bechtel S., et al. BMC Genomics 8:399-399(2007).