10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RAB1B Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP13810b

Specification

RAB1B Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q9H0U4

RAB1B Antibody (C-term) Blocking peptide - Additional Information

Gene ID 81876

Other Names
Ras-related protein Rab-1B, RAB1B

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13810b was selected from the C-term region of RAB1B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RAB1B Antibody (C-term) Blocking peptide - Protein Information

Name RAB1B

Function
The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes (PubMed:20545908, PubMed:9437002). 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:9437002). Plays a role in the initial events of the autophagic vacuole development which take place at specialized regions of the endoplasmic reticulum (PubMed:20545908). Regulates vesicular transport between the endoplasmic reticulum and successive Golgi compartments (By similarity). Required to modulate the compacted morphology of the Golgi (PubMed:26209634). Promotes the

recruitment of lipid phosphatase MTMR6 to the endoplasmic reticulum-Golgi intermediate compartment (By similarity).

Cellular Location
Cytoplasm. Membrane; Lipid-anchor; Cytoplasmic side. Preautophagosomal structure membrane; Lipid-anchor; Cytoplasmic side. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:P10536}. Note=Targeted by REP1 to membranes of specific subcellular compartments including endoplasmic reticulum, Golgi apparatus, and intermediate vesicles between these two compartments (PubMed:11389151). In the GDP-form, colocalizes with GDI in the cytoplasm (PubMed:11389151). Co-localizes with MTMR6 to the endoplasmic reticulum-Golgi intermediate compartment and to the peri- Golgi region (By similarity). {ECO:0000250|UniProtKB:P10536, ECO:0000269|PubMed:11389151}

RAB1B Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

RAB1B Antibody (C-term) Blocking peptide - Images

RAB1B Antibody (C-term) Blocking peptide - Background

Members of the RAB protein family, such as RAB1B, are lowmolecular mass monomeric GTPases localized on the cytoplasmicsurfaces of distinct membrane-bound organelles. RAB1B functions inthe early secretory pathway and is essential for vesicle transportbetween the endoplasmic reticulum (ER) and Golgi (Chen et al., 1997[PubMed 9030196]; Alvarez et al., 2003 [PubMed 12802079]).[suppliedby OMIM].

RAB1B Antibody (C-term) Blocking peptide - References

Yamayoshi, S., et al. J. Virol. 84(9):4816-4820(2010)Machner, M.P., et al. Science 318(5852):974-977(2007)Monetta, P., et al. Mol. Biol. Cell 18(7):2400-2410(2007)Wu, C., et al. Proteomics 7(11):1775-1785(2007)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :