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RAB31 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP19029b

Specification

RAB31 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q13636

RAB31 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 11031

Other Names
Ras-related protein Rab-31, Ras-related protein Rab-22B, RAB31, RAB22B

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.

RAB31 Antibody (C-term) Blocking Peptide - Protein Information

Name RAB31

Synonyms RAB22B

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. Required for the integrity and for normal function of the Golgi apparatus and the trans-Golgi network. Plays a role in insulin-stimulated translocation of GLUT4 to the cell membrane. Plays a role in M6PR transport from the trans-Golgi network to endosomes. Plays a role in the internalization of EGFR from the cell membrane into endosomes. Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and M.tuberculosis.

Cellular Location
Golgi apparatus, trans-Golgi network. Golgi apparatus, trans-Golgi network membrane; Lipid-anchor; Cytoplasmic side. Early endosome. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle, phagosome membrane; Lipid-anchor; Cytoplasmic side. Note=Rapidly recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:21255211)

Tissue Location
Highest expression in placenta and brain with lower levels in heart and lung. Not detected in liver, skeletal muscle, kidney or pancreas.

RAB31 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

RAB31 Antibody (C-term) Blocking Peptide - Images

RAB31 Antibody (C-term) Blocking Peptide - Background

Small GTP-binding proteins of the RAB family, such asRAB31, play essential roles in vesicle and granule targeting (Baoet al., 2002 [PubMed 11784320]).

RAB31 Antibody (C-term) Blocking Peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :Ng, E.L., et al. J. Cell. Physiol. 221(3):716-728(2009)Kotzsch, M., et al. Breast Cancer Res. Treat. 111(2):229-240(2008)Ng, E.L., et al. Biochem. Biophys. Res. Commun. 361(3):751-757(2007)Olsen, J.V., et al. Cell 127(3):635-648(2006)