

RAB32 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17478a**Specification**

RAB32 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q13637](#)**RAB32 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 10981

Other Names

Ras-related protein Rab-32, RAB32

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.

RAB32 Antibody (N-term) Blocking Peptide - Protein Information

Name RAB32

Function

Acts as an A-kinase anchoring protein by binding to the type II regulatory subunit of protein kinase A and anchoring it to the mitochondrion. Also involved in synchronization of mitochondrial fission (PubMed:12186851). Plays a role in the maturation of phagosomes that engulf pathogens, such as S.aureus and M.tuberculosis (PubMed:21255211). Plays an important role in the control of melanin production and melanosome biogenesis (PubMed:23084991). In concert with RAB38, regulates the proper trafficking of melanogenic enzymes TYR, TYRP1 and DCT/TYRP2 to melanosomes in melanocytes (By similarity).

Cellular Location

Mitochondrion. Mitochondrion outer membrane; Lipid-anchor. Cytoplasmic vesicle, phagosome. Cytoplasmic vesicle, phagosome membrane; Lipid-anchor; Cytoplasmic side. Melanosome {ECO:0000250|UniProtKB:Q9CZE3}. Melanosome membrane. Note=Recruited to phagosomes containing S.aureus or M.tuberculosis (PubMed:21255211). The BLOC-3 complex, a heterodimer of HPS1 and HPS4 promotes its membrane localization (PubMed:23084991).

Tissue Location

Widely expressed with high levels in heart, liver, kidney, bone marrow, testis, colon and fetal lung

RAB32 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

RAB32 Antibody (N-term) Blocking Peptide - Images

RAB32 Antibody (N-term) Blocking Peptide - Background

Small GTP-binding proteins of the RAB family, such as RAB32, play essential roles in vesicle and granule targeting (Bao et al., 2002 [PubMed 11784320]).

RAB32 Antibody (N-term) Blocking Peptide - References

Hirota, Y., et al. Cell. Mol. Life Sci. 66(17):2913-2932(2009) Shibata, D., et al. Int. J. Cancer 119(4):801-806(2006) Mungall, A.J., et al. Nature 425(6960):805-811(2003) Alto, N.M., et al. J. Cell Biol. 158(4):659-668(2002) Bao, X., et al. Eur. J. Biochem. 269(1):259-271(2002)