

SAR1B Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP10397c**Specification**

SAR1B Antibody (Center) Blocking peptide - Product Information

Primary Accession [Q9Y6B6](#)
Other Accession [NP_057187.1](#), [NP_001028675.1](#)

SAR1B Antibody (Center) Blocking peptide - Additional Information

Gene ID 51128

Other Names

GTP-binding protein SAR1b, GTP-binding protein B, GTBPB, SAR1B, SARA2, SARB

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.

SAR1B Antibody (Center) Blocking peptide - Protein Information

Name SAR1B {ECO:0000303|PubMed:33186557, ECO:0000312|HGNC:HGNC:10535}

Function

GTP-binding protein involved in transport from the endoplasmic reticulum to the Golgi apparatus (By similarity). Activated by the guanine nucleotide exchange factor PREB (By similarity). Involved in the selection of the protein cargo and the assembly of the COPII coat complex (By similarity). Synergizes with the cargo receptor SURF4 to mediate the export of lipoproteins from the endoplasmic reticulum, thereby regulating lipoprotein delivery and the maintenance of lipid homeostasis (PubMed:33186557).

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9QVY3}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9QVY3}. Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:Q9QVY3}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9QVY3}. Note=Associated with the endoplasmic reticulum and Golgi stacks, in particular in the juxta-nuclear Golgi region. {ECO:0000250|UniProtKB:Q9QVY3}

Tissue Location

Expressed in many tissues including small intestine, liver, muscle and brain.

SAR1B Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SAR1B Antibody (Center) Blocking peptide - Images

SAR1B Antibody (Center) Blocking peptide - Background

The protein encoded by this gene is a small GTPase that acts as a homodimer. The encoded protein is activated by the guanine nucleotide exchange factor PREB and is involved in protein transport from the endoplasmic reticulum to the Golgi. This protein is part of the COPII coat complex. Defects in this gene are a cause of chylomicron retention disease (CMRD), also known as Anderson disease (ANDD). Two transcript variants encoding the same protein have been found for this gene.

SAR1B Antibody (Center) Blocking peptide - References

Cefalu, A.B., et al. Metab. Clin. Exp. 59(4):463-467(2010) Silvain, M., et al. Clin. Genet. 74(6):546-552(2008) Charcosset, M., et al. Mol. Genet. Metab. 93(1):74-84(2008) Jardim, D.L., et al. J. Biochem. Mol. Biol. 38(3):328-333(2005) Jones, B., et al. Nat. Genet. 34(1):29-31(2003)