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SAR1B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10397c

Specification

SAR1B Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9Y6B6
Other Accession	Q5HZY2, Q5PYH3, Q9CQC9, Q9QVY3, Q3T0T7, NP_057187.1, NP_001028675.1
Reactivity	**Human**
Predicted	**Bovine, Hamster, Mouse, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**22410**
Antigen Region	**89-116**

SAR1B Antibody (Center) - Additional Information

Gene ID 51128

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

Target/Specificity
This SAR1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-116 amino acids from the Central region of human SAR1B.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
SAR1B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SAR1B Antibody (Center) - 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}

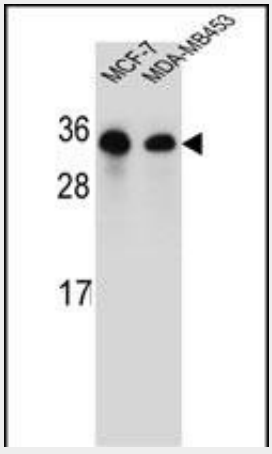
Tissue Location
Expressed in many tissues including small intestine, liver, muscle and brain.

SAR1B Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SAR1B Antibody (Center) - Images

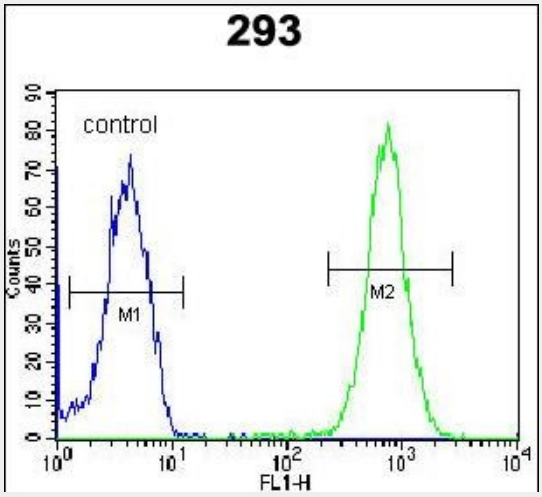


SAR1B Antibody (Center) (Cat. #AP10397c) western blot analysis in MCF-7,MDA-MB453 cell line lysates (35ug/lane).This demonstrates the SAR1B antibody detected the SAR1B protein (arrow).

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SAR1B antibody (Center) (Cat. #AP10397c) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SAR1B antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



SAR1B Antibody (Center) (Cat. #AP10397c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

SAR1B Antibody (Center) - 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) - 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)
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