

Goat Anti-SAR1B / SARA2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1958a**Specification**

Goat Anti-SAR1B / SARA2 Antibody - Product Information

Application	WB
Primary Accession	Q9Y6B6
Other Accession	NP_057187 , 51128 , 66397 (mouse) , 287276 (rat)
Reactivity	Mouse, Rat
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	22410

Goat Anti-SAR1B / SARA2 Antibody - Additional Information**Gene ID** 51128**Other Names**

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

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SAR1B / SARA2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SAR1B / SARA2 Antibody - 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.

Goat Anti-SAR1B / SARA2 Antibody - Protocols

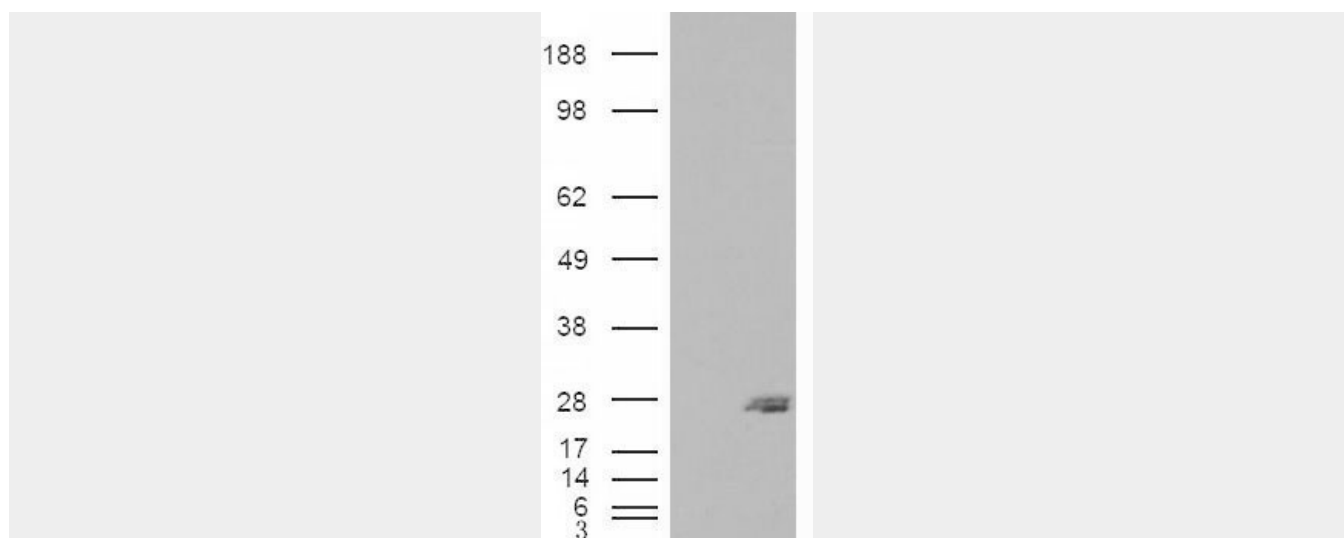
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-SAR1B / SARA2 Antibody - Images



AF1958a (0.03 µg/ml) staining of Mouse Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



HEK293 overexpressing SAR1B (RC210593) and probed with AF1958a (mock transfection in first lane), tested by Origene.

Goat Anti-SAR1B / SARA2 Antibody - 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.

Goat Anti-SAR1B / SARA2 Antibody - References

Variable phenotypic expression of chylomicron retention disease in a kindred carrying a mutation of the Sara2 gene. Cefal AB, et al. *Metabolism*, 2010 Apr. PMID 19846172.

Anderson's disease (chylomicron retention disease): a new mutation in the SARA2 gene associated with muscular and cardiac abnormalities. Silvain M, et al. *Clin Genet*, 2008 Dec. PMID 18786134.

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. *Mol Cell Proteomics*, 2008 Mar. PMID 18029348.

Anderson or chylomicron retention disease: molecular impact of five mutations in the SAR1B gene on the structure and the functionality of Sar1b protein. Charcosset M, et al. *Mol Genet Metab*, 2008 Jan. PMID 17945526.

Expression of Sara2 human gene in erythroid progenitors. Jardim DL, et al. *J Biochem Mol Biol*, 2005 May 31. PMID 15943909.