

SAR1B Polyclonal Antibody | anti-SAR1B antibody

SAR1B (Center) Rabbit pAb

CATALOG # AAA268649	REACTIVITY Human; Mouse; Rat	APPLICATIONS ELISA, Immunofluorescence, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

SAR1B; Polyclonal Antibody; SAR1B (Center) Rabbit pAb; SARA2; SARB; GTP-binding protein SAR1b;G TP-binding protein B; GTBPB; anti-SAR1B antibody

PRODUCT SPECIFICATIONS

Reactivity	Human; Mouse; Rat
Clonality	Polyclonal
Isotype	Rabbit, IgG
Clone Number	RB28097
Specificity	Sar1B Polyclonal Antibody detects endogenous levels of Sar1B protein.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml (varies by lot)
Applicable Applications for anti-SAR1B antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Protein Name	GTP-binding protein SAR1b
Immunogen	The antiserum was produced against synthesized peptide derived from human SAR1B. AA range:111-160
Function	disease: Defects in SAR1B are the cause of chylomicron retention disease (CMRD) [MIM:246700]; also known as Anderson disease (ANDD). CMRD is an autosomal recessive disorder of severe fat malabsorption associated with failure to thrive in infancy. The condition is characterized by deficiency of fat-soluble vitamins, low blood cholesterol levels, and a selective absence of chylomicrons from blood. Affected individuals accumulate chylomicron-like particles in membrane-bound compartments of enterocytes, which contain large cytosolic lipid droplets., function: Involved in transport from the endoplasmic reticulum to the Golgi apparatus. Activated by the guanine nucleotide exchange factor PREB. Involved in the selection of the protein cargo and the assembly of the COPII coat complex., similarity: Belongs to the small GTPase superfamily., similarity: Belongs to the small GTPase superfamily. SAR1 family
Subcellular Location	Endoplasmic reticulum membrane ; Peripheral membrane protein . Golgi apparatus, Golgi stack membrane ; Peripheral membrane protein . Associated with the endoplasmic reticulum and Golgi stacks, in particular in the juxta-nuclear Golgi region.
Expression	Expressed in many tissues including small intestine, liver, muscle and brain.
Preparation and Storage	-15°C to -25°C/1 year (Do not lower than -25°C)

IMAGES



WB (Western Blot)



IHC (Immunohistochemistry)
Immunohistochemistry analysis of paraffinembedded human placenta tissue, using SAR1B Antibody. The picture on the right is blocked with the synthesized peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SAR1B antibody	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. [provided by RefSeq, Mar 2010],
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NCBI AND UNIPROT INFORMATION

NCBI GI #	75709204
NCBI GeneID	51128
NCBI Accession #	NP_001028675.1
NCBI GenBank Nucleotide #	NP_001028675.1
UniProt Accession #	Q9Y6B6
Molecular Weight	Observed Band(KD): 22kD
NCBI Official Full Name	GTP-binding protein SAR1b
NCBI Official Synonym Full Names	secretion associated Ras related GTPase 1B
NCBI Official Symbol	SAR1B
NCBI Official Synonym Symbols	ANDD; CMRD; GTBPB; SARA2
NCBI Protein Information	GTP-binding protein SAR1b
UniProt Protein Name	GTP-binding protein SAR1b
UniProt Gene Name	SAR1B
UniProt Synonym Gene Names	SARA2; SARB; GTBPB
UniProt Entry Name	SAR1B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.