Best Tools for immunology Research

Sar1B Polyclonal Antibody

Catalog No :	YT4214
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Sar1B
Fields :	>>Protein processing in endoplasmic reticulum;>>Legionellosis
Gene Name :	SAR1B
Protein Name :	GTP-binding protein SAR1b
Human Gene Id :	51128
Human Swiss Prot No :	Q9Y6B6
Mouse Gene Id :	66397
Mouse Swiss Prot No :	Q9CQC9
Rat Gene Id :	287276
Rat Swiss Prot No :	Q5HZY2
Immunogen :	The antiserum was produced against synthesized peptide derived from human SAR1B. AA range:111-160
Specificity :	Sar1B Polyclonal Antibody detects endogenous levels of Sar1B protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 22kD

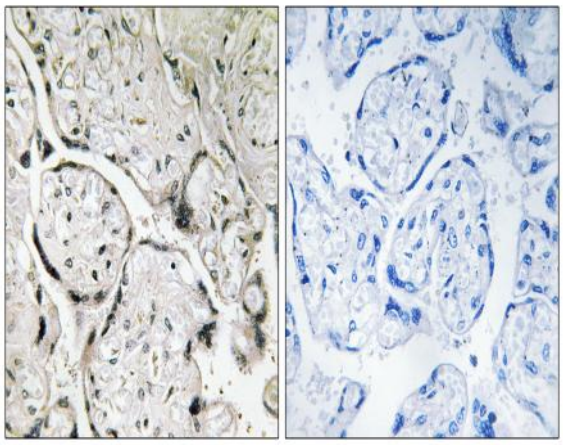
Background : The protein encoded by this gene is a small GTPase that acts as a homodimer. The encoded protein is activated by the guanine nucleotide exchange factor PREB and is involved in protein transport from the endoplasmic reticulum to the Golgi. This protein is part of the COPII coat complex. Defects 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. [provided by RefSeq, Mar 2010],

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

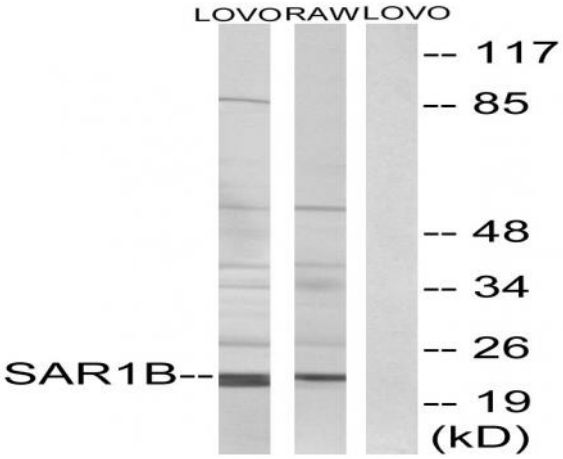
Subcellular Location : Endoplasmic reticulum membrane ; Peripheral membrane protein . Golgi apparatus, Golgi stack membrane ; Peripheral membrane protein . Associated with the endoplasmic reticulum and Golgi stacks, in particular in the juxta-nuclear Golgi region. .

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

Products Images



Immunohistochemistry analysis of paraffin-embedded human placenta tissue, using SAR1B Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO and RAW264.7 cells, using SAR1B Antibody. The lane on the right is blocked with the synthesized peptide.