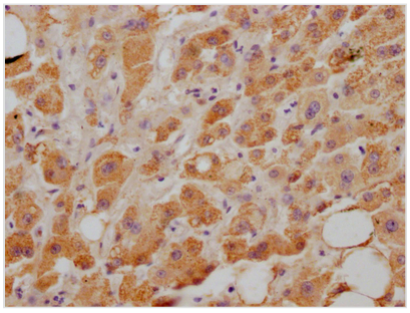
NPC1L1 Recombinant Monoclonal Antibody

Product Code	CSB-RA921474A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9UHC9
Immunogen	A synthesized peptide derived from human NPC1L1
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Plays a major role in cholesterol homeostasis. Is critical for the uptake of cholesterol across the plasma membrane of the intestinal enterocyte. Is the direct molecular target of ezetimibe, a drug that inhibits cholesterol absorption. Lack of activity leads to multiple lipid transport defects. The protein may have a function in the transport of multiple lipids and their homeostasis, and may play a critical role in regulating lipid metabolism. Acts as a negative regulator of NPC2 and down-regulates its expression and secretion by inhibiting its maturation and accelerating its degradation.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Cancer; Cardiovascular; Metabolism; Signal transduction
Gene Names	NPC1L1
Clone No.	4B10

Image



IHC image of CSB-RA921474A0HU diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The NPC1L1 recombinant monoclonal antibody is a highly specific antibody that recognizes the human protein NPC1L1. This NPC1L1 antibody was made by transfecting human NPC1L1 monoclonal antibody gene-vector clones into a cell line for in vitro expression, then purifying the antibody using affinity chromatography from the tissue culture supernatant (TCS). The human NPC1L1 monoclonal antibody was produced by immunizing mice with a human NPC1L1 synthetic peptide. The isotype of this NPC1L1 antibody is the same as rabbit IgG. Recommended applications for this NPC1L1 antibody are ELISA and IHC.

NPC1L1 is a multi-transmembrane protein that is involved in both dietary and biliary cholesterol absorption. It also aids in the maintenance of intestinal cholesterol homeostasis. The cholesterol absorption inhibitor class of drugs, of which ezetimibe is the first extensively used one, has identified NPC1L1 as the molecular target.