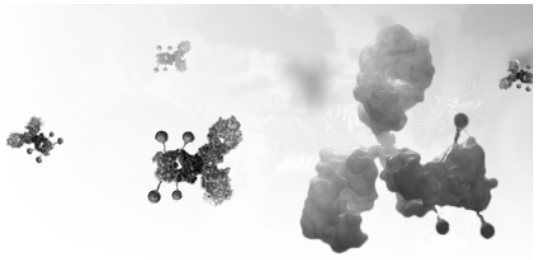

NPC1 blocking peptide (CDBP5846)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a large protein that resides in the limiting membrane of endosomes and lysosomes and mediates intracellular cholesterol trafficking via binding of cholesterol to its N-terminal domain. It is predicted to have a cytoplasmic C-terminus, 13 transmembrane domains, and 3 large loops in the lumen of the endosome - the last loop being at the N-terminus. This protein transports low-density lipoproteins to late endosomal/lysosomal compartments where they are hydrolized and released as free cholesterol. Defects in this gene cause Niemann-Pick type C disease, a rare autosomal recessive neurodegenerative disorder characterized by over accumulation of cholesterol and glycosphingolipids in late endosomal/lysosomal compartments.[provided by RefSeq, Aug 2009]
Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 µg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

GENE INFORMATION

Gene Name	NPC1 Niemann-Pick disease, type C1 [Homo sapiens (human)]
Official Symbol	NPC1
Synonyms	NPC1; Niemann-Pick disease, type C1; NPC; Niemann-Pick C1 protein

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Entrez Gene ID	4864
mRNA Refseq	NM_000271
Protein Refseq	NP_000262
UniProt ID	O15118
Pathway	Lysosome
Function	cholesterol binding; hedgehog receptor activity; protein binding; receptor activity; sterol transporter activity; transmembrane signaling receptor activity

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