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NPC2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6755b

Specification

NPC2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P61916

NPC2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 10577

Other Names
Epididymal secretory protein E1, Human epididymis-specific protein 1, He1, Niemann-Pick disease type C2 protein, NPC2, HE1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6755b was selected from the C-term region of human NPC2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NPC2 Antibody (C-term) Blocking Peptide - Protein Information

Name NPC2 (HGNC:14537)

NPC2 Antibody (C-term) Blocking Peptide - Background

NPC2 contains a lipid recognition domain. This protein may function in regulating the transport of cholesterol through the late endosomal/lysosomal system.

NPC2 Antibody (C-term) Blocking Peptide - References

Araki,N., et.al., Biochem. Biophys. Res. Commun. 388 (2), 290-296 (2009)

Synonyms HE1

Function
Intracellular cholesterol transporter which acts in concert with NPC1 and plays an important role in the egress of cholesterol from the lysosomal compartment (PubMed:17018531, PubMed:11125141, PubMed:18772377, PubMed:29580834, PubMed:15937921). Unesterified cholesterol that has been released from LDLs in the lumen of the late endosomes/lysosomes is transferred by NPC2 to the cholesterol-binding pocket in the N-terminal domain of NPC1 (PubMed:17018531, PubMed:18772377, PubMed:27238017). May bind and mobilize cholesterol that is associated with membranes (PubMed:18823126). NPC2 binds cholesterol with a 1:1 stoichiometry (PubMed:17018531). Can bind a variety of sterols, including lathosterol, desmosterol and the plant sterols stigmasterol and beta-sitosterol (PubMed:17018531). The secreted form of NCP2 regulates biliary cholesterol secretion via stimulation of ABCG5/ABCG8-mediated cholesterol transport (By similarity).

Cellular Location
Secreted. Endoplasmic reticulum. Lysosome Note=Interaction with cell-surface M6PR

mediates endocytosis and targeting to lysosomes.

Tissue Location
Detected in gallbladder bile (PubMed:21315718). Detected in fibroblasts, kidney, liver, spleen, small intestine, placenta and testis (at protein level) (PubMed:11125141). Epididymis

NPC2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides