

NPC2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6755b**Specification**

NPC2 Antibody (C-term) Blocking Peptide - Product InformationPrimary 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](/products/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](#))**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](http://www.uniprot.org/citations/17018531), PubMed: [11125141](http://www.uniprot.org/citations/11125141), PubMed: [18772377](http://www.uniprot.org/citations/18772377), PubMed: [29580834](http://www.uniprot.org/citations/29580834), PubMed: [15937921](http://www.uniprot.org/citations/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 NPC2 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](#)

NPC2 Antibody (C-term) Blocking Peptide - Images**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)