

NPC2 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3168a**Specification**

NPC2 Antibody (internal region) - Product Information

Application	WB
Primary Accession	P61916
Other Accession	NP_006423.1 , 10577
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	16570

NPC2 Antibody (internal region) - 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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NPC2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

NPC2 Antibody (internal region) - 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, PubMed:11125141, PubMed:18772377, PubMed:18772377, PubMed:18772377)

href="http://www.uniprot.org/citations/29580834" target="_blank">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 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

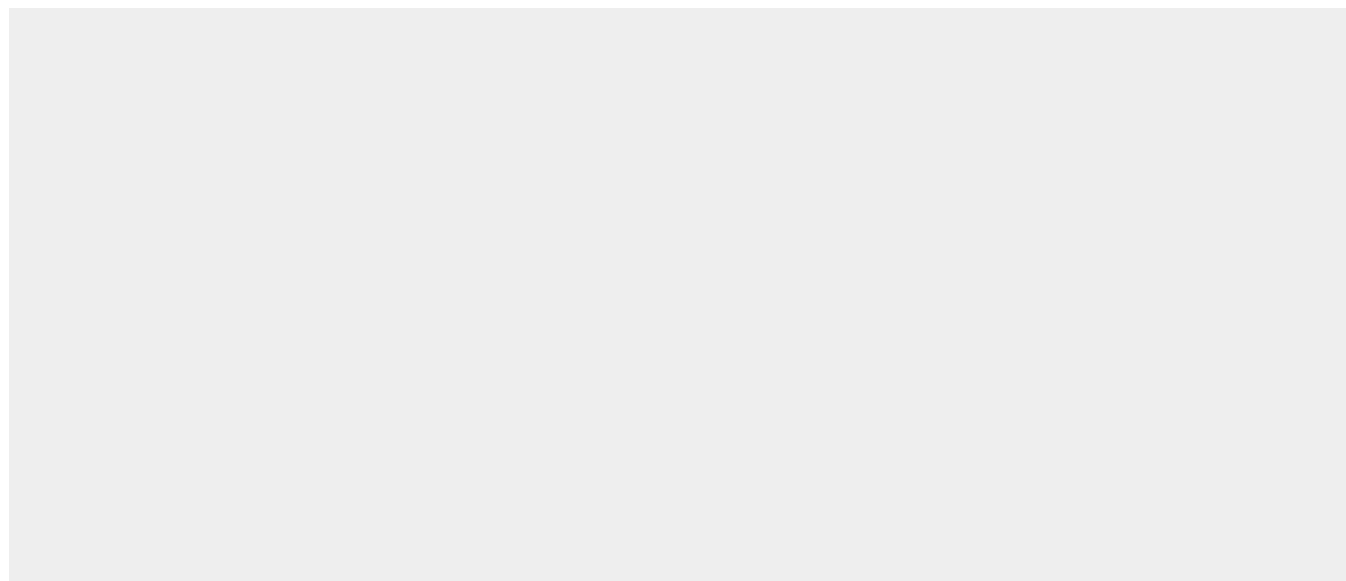
Detected in gallbladder bile (PubMed:21315718). Detected in fibroblasts, kidney, liver, spleen, small intestine, placenta and testis (at protein level) (PubMed:11125141). Epididymis

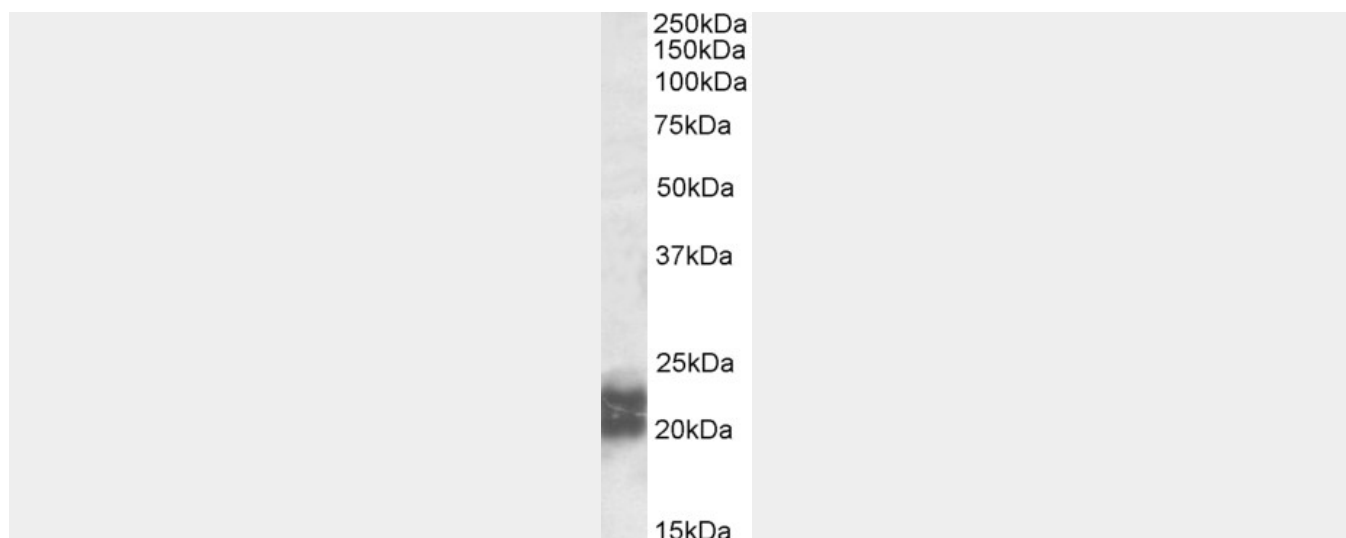
NPC2 Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NPC2 Antibody (internal region) - Images





AF3168a (0.5 µg/ml) staining of Human Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

NPC2 Antibody (internal region) - References

Regulation of sterol transport between membranes and NPC2. Xu Z, Farver W, Kodukula S, Storch J, Biochemistry 2008 Oct 47 (42): 11134-43. PMID: 18823126