

KD-Validated Anti-NPC2 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2106**Specification****KD-Validated Anti-NPC2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P61916
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 17 kDa, observed, 17 kDa kDa
Gene Name	NPC2
Aliases	NPC2; NPC Intracellular Cholesterol Transporter 2; HE1; EDDM1; Niemann-Pick Disease Type C2 Protein; Human Epididymis-Specific Protein 1; Epididymal Protein 1; NP-C2; Epididymis Secretory Sperm Binding Protein; Tissue-Specific Secretory Protein; Epididymal Secretory Protein E1; Niemann-Pick Disease, Type C2; He1
Immunogen	Recombinant protein of human Niemann Pick C2

KD-Validated Anti-NPC2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	10577
Other Names	
NPC intracellular cholesterol transporter 2 {ECO:0000312 HGNC:HGNC:14537}, Epididymal secretory protein E1, Human epididymis-specific protein 1, He1, Niemann-Pick disease type C2 protein, NPC2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=14537), HE1	

KD-Validated Anti-NPC2 Rabbit Monoclonal Antibody - 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:[11125141](http://www.uniprot.org/citations/11125141), PubMed:[15937921](http://www.uniprot.org/citations/15937921), PubMed:[17018531](http://www.uniprot.org/citations/17018531), PubMed:[18772377](http://www.uniprot.org/citations/18772377), PubMed:[29580834](http://www.uniprot.org/citations/29580834)). 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

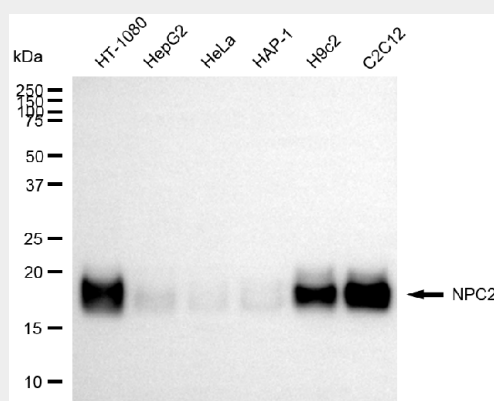
Detected in gallbladder bile (PubMed:21315718). Detected in fibroblasts, kidney, liver, spleen, small intestine, placenta and testis (at protein level) (PubMed:11125141). Epididymis

KD-Validated Anti-NPC2 Rabbit Monoclonal Antibody - Protocols

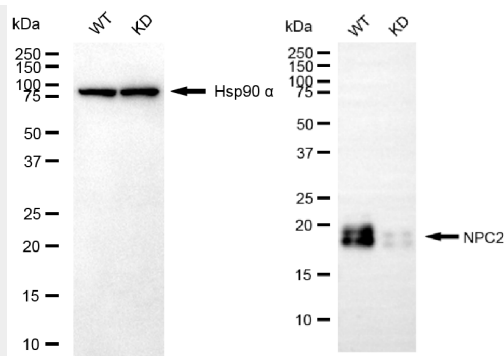
Provided below are standard protocols that you may find useful for product applications.

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

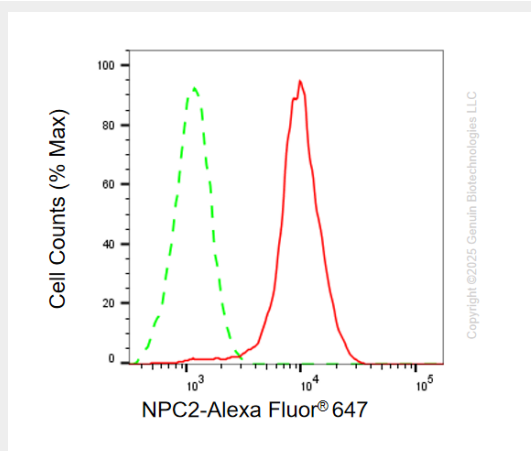
KD-Validated Anti-NPC2 Rabbit Monoclonal Antibody - Images



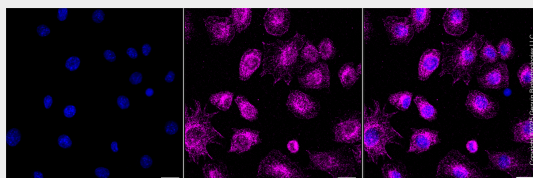
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Western blotting analysis using anti-NPC2 antibody (Cat#AGI2106). NPC2 expression in wild-type (WT) and NPC2 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NPC2 antibody (Cat#AGI2106, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of NPC2 expression in C2C12 cells using anti-NPC2 antibody (Cat#AGI2106, 1:1,000). Green, isotype control; red, NPC2.



Immunocytochemical staining of C2C12 cells with anti-NPC2 antibody (Cat#AGI2106, 1:1,000). Nuclei were stained blue with DAPI; NPC2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.