

Rabbit NPC2 Polyclonal Antibody | anti-NPC2 antibody

NPC2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327032	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

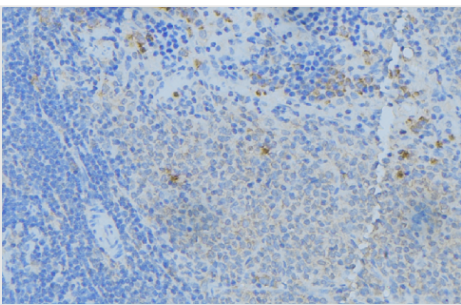
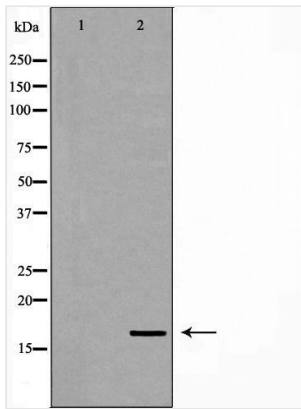
PRODUCT SYNONYMS

NPC2; Polyclonal Antibody; NPC2 Antibody; EDDM1; Epididymal protein 1; Epididymal secretory protein; Epididymal secretory protein E1; hE1; Human epididymis-specific protein 1; Niemann-Pick disease type C2; Niemann-Pick disease type C2 protein; NPC intracellular cholesterol transporter 2; NPC2_HUMAN; Tissue specific secretory protein; anti-NPC2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NPC2 antibody detects endogenous levels of total NPC2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	151
Applicable Applications for anti-NPC2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human NPC2
Subcellular Location	Secreted.
Tissue Specificity	Epididymis.
Predicted Cross Reactivity	Horse, Dog
Similarity	Horse (88%), Dog (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327032 at 1/100 staining Human lymph node tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of 293T whole cell lysates, using NPC2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NPC2 antibody

Description: This gene encodes a protein containing a lipid recognition domain. The encoded protein may function in regulating the transport of cholesterol through the late endosomal/lysosomal system. Mutations in this gene have been associated with Niemann-Pick disease, type C2 and frontal lobe atrophy.

Function: Intracellular cholesterol transporter which acts in concert with NPC1 and plays an important role in the egress of cholesterol from the endosomal/lysosomal compartment. Both NPC1 and NPC2 function as the cellular 'tag team duo' (TTD) to catalyze the mobilization of cholesterol within the multivesicular environment of the late endosome (LE) to effect egress through the limiting bilayer of the LE. NPC2 binds unesterified cholesterol that has been released from LDLs in the lumen of the late endosomes/lysosomes and transfers it to the cholesterol-binding pocket of the N-terminal domain of NPC1. Cholesterol binds to NPC1 with the hydroxyl group buried in the binding pocket and is exported from the limiting membrane of late endosomes/lysosomes to the ER and plasma membrane by an unknown mechanism. The secreted form of NCP2 regulates biliary cholesterol secretion via stimulation of ABCG5/ABCG8-mediated cholesterol transport.

Subunit Structure: Interacts with NUS1/NgBR, the interaction stabilizes NCP2 and regulates cholesterol trafficking. Interacts with DHDDS. Interacts with NPC1 (via the second luminal domain) in a cholesterol-dependent manner (By similarity). Interacts with NEDD4L (via C2 domain) (By similarity). Interacts with NPC1L1.

Similarity: Belongs to the NPC2 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453678
NCBI GeneID	10577
NCBI Accession #	NP_006423.1
NCBI GenBank Nucleotide #	NM_006432.4
UniProt Accession #	P61916; Q15668; Q29413; B4DQV7
Molecular Weight	Observed: 17 kDa Predicted: 17 kDa
NCBI Official Full Name	NPC intracellular cholesterol transporter 2 isoform 2
NCBI Official Synonym Full Names	NPC intracellular cholesterol transporter 2
NCBI Official Symbol	NPC2
NCBI Official Synonym Symbols	HE1; EDDM1
NCBI Protein Information	NPC intracellular cholesterol transporter 2
UniProt Protein Name	NPC intracellular cholesterol transporter 2

UniProt Gene Name	NPC2
UniProt Synonym Gene Names	HE1; He1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/npc2-antibody-immunohistochemistry-western-blot-elisa/327032>