

Rabbit anti-Human NPC1 Polyclonal Antibody | anti-NPC1 antibody

NPC1 Antibody (Center)

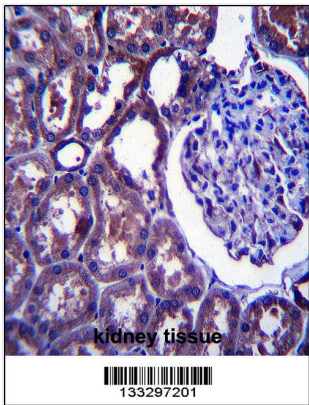
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284344	Rabbit	Human	Western Blot, Immunohistochemistry, ELISA, Immunofluorescence

PRODUCT SYNONYMS

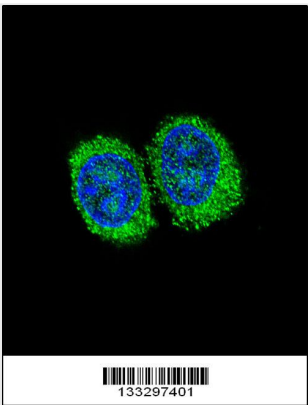
NPC1; Polyclonal Antibody; NPC1 Antibody (Center); Niemann-Pick C1 protein; anti-NPC1 antibody

PRODUCT SPECIFICATIONS

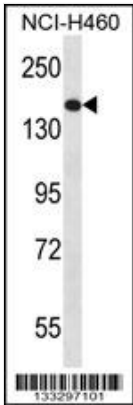
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This NPC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 591-620 amino acids from the Central region of human NPC1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.35 (varies by lot)
Sequence Positions	591-620
Sequence Length	960
Applicable Applications for anti-NPC1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemisry)
NPC1 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NPC1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



IF (Immunofluorescence)
Confocal immunofluorescent analysis of NPC1 Antibody (Center) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



WB (Western Blot)
NPC1 Antibody (Center) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the NPC1 antibody detected the NPC1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-NPC1 antibody	This gene encodes a large protein that resides in the limiting membrane of endosomes and lysosomes and mediates intracellular cholesterol trafficking via binding of cholesterol to its N-terminal domain. It is predicted to have a cytoplasmic C-terminus, 13 transmembrane domains, and 3 large loops in the lumen of the endosome - the last loop being at the N-terminus. This protein transports low-density lipoproteins to late endosomal/lysosomal compartments where they are hydrolized and released as free cholesterol. Defects in this gene cause Niemann-Pick type C disease, a rare autosomal recessive neurodegenerative disorder characterized by over accumulation of cholesterol and glycosphingolipids in late endosomal/lysosomal compartments.
Product Categories/Family for anti-NPC1 antibody	Cardiovascular; Metabolism; Neuroscience; Signal Transduction
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Fontaine-Bisson, B., et al. Diabetologia 53(10):2155-2162(2010) Kagedal, K., et al. Biochim. Biophys. Acta 1801(8):831-838(2010) Rodriguez-Rodriguez, E., et al. J. Alzheimers Dis. 21(2):619-625(2010) Ma, W., et al. BMC Med. Genet. 11, 149 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	255652944
NCBI GeneID	4864
NCBI Accession #	NP_000262.2
NCBI GenBank Nucleotide #	NM_000271.4
UniProt Accession #	O15118; Q9P130; B4DET3
Molecular Weight	142167
NCBI Official Full Name	Niemann-Pick C1 protein
NCBI Official Synonym Full Names	Niemann-Pick disease, type C1
NCBI Official Symbol	NPC1
NCBI Official Synonym Symbols	NPC
NCBI Protein Information	Niemann-Pick C1 protein
UniProt Protein Name	Niemann-Pick C1 protein
UniProt Gene Name	NPC1
UniProt Entry Name	NPC1_HUMAN

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/npc1-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/284344>