

# Niemann Pick C1 Rabbit mAb

Catalog # AP78179

## Product Information

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<b>Application</b>	WB, IHC-P, IF, FC, ICC
<b>Primary Accession</b>	<a href="#">O15118</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human Niemann Pick C1
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	142167

## Additional Information

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<b>Gene ID</b>	4864
<b>Other Names</b>	NPC1
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	NPC1 ( <a href="#">HGNC:7897</a> )
<b>Function</b>	<p>Intracellular cholesterol transporter which acts in concert with NPC2 and plays an important role in the egress of cholesterol from the endosomal/lysosomal compartment (PubMed:<a href="#">10821832</a>, PubMed:<a href="#">12554680</a>, PubMed:<a href="#">18772377</a>, PubMed:<a href="#">27238017</a>, PubMed:<a href="#">9211849</a>, PubMed:<a href="#">9927649</a>). 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:<a href="#">18772377</a>, PubMed:<a href="#">19563754</a>, PubMed:<a href="#">27238017</a>, PubMed:<a href="#">27378690</a>, PubMed:<a href="#">28784760</a>, PubMed:<a href="#">9211849</a>, PubMed:<a href="#">9927649</a>). Cholesterol binds to NPC1 with the hydroxyl group buried in the binding pocket (PubMed:<a href="#">19563754</a>). Binds oxysterol with higher affinity than cholesterol. May play a role in vesicular trafficking in glia, a process that may be crucial for maintaining the structural and functional integrity of nerve terminals (Probable). Inhibits cholesterol-mediated mTORC1 activation through its</p>

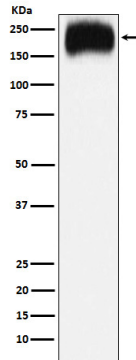
interaction with SLC38A9 (PubMed:[28336668](#)).

## Cellular Location

Late endosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein

## Images

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