

**Niemann Pick C1 Rabbit mAb**  
Catalog # AP78179**Specification**

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**Niemann Pick C1 Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O15118</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>142167</b>

**Niemann Pick C1 Rabbit mAb - Additional Information****Gene ID** 4864**Other Names**

NPC1

**Dilution**

WB~~1/500-1/1000

**Format**

Liquid

**Niemann Pick C1 Rabbit mAb - Protein Information****Name** NPC1 ([HGNC:7897](#))**Function**

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:[10821832](http://www.uniprot.org/citations/10821832), PubMed:[12554680](http://www.uniprot.org/citations/12554680), PubMed:[18772377](http://www.uniprot.org/citations/18772377), PubMed:[27238017](http://www.uniprot.org/citations/27238017), PubMed:[9211849](http://www.uniprot.org/citations/9211849), PubMed:[9927649](http://www.uniprot.org/citations/9927649)). 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:[18772377](http://www.uniprot.org/citations/18772377), PubMed:[19563754](http://www.uniprot.org/citations/19563754), PubMed:[27238017](http://www.uniprot.org/citations/27238017), PubMed:[27378690](http://www.uniprot.org/citations/27378690), PubMed:[28784760](http://www.uniprot.org/citations/28784760), PubMed:[9211849](http://www.uniprot.org/citations/9211849), PubMed:[9927649](http://www.uniprot.org/citations/9927649)). Cholesterol binds to NPC1 with the hydroxyl group buried in the binding pocket (PubMed:[18772377](http://www.uniprot.org/citations/18772377)).

<http://www.uniprot.org/citations/19563754> target="\_blank">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 interaction with SLC38A9 (PubMed:<a href="http://www.uniprot.org/citations/28336668" target="\_blank">28336668</a>).

#### Cellular Location

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

#### Niemann Pick C1 Rabbit mAb - 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](#)

#### Niemann Pick C1 Rabbit mAb - Images

