

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

Niemann Pick C1 Rabbit mAb - Product Information

Application	WB
Primary Accession	O15118
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	142167

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:[9927649](http://www.uniprot.org/citations/9927649)).

<http://www.uniprot.org/citations/19563754> target="_blank">19563754). 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:28336668).

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

