

Anti-Niemann Pick C1 Rabbit Monoclonal Antibody
Catalog # ABO15231**Specification****Anti-Niemann Pick C1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, FC
Primary Accession	O15118
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Niemann Pick C1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-Niemann Pick C1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 4864

Other Names

NPC intracellular cholesterol transporter 1 {ECO:0000312|HGNC:HGNC:7897}, Niemann-Pick C1 protein, NPC1 ([HGNC:7897](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=7897))

Calculated MW

160-180 kDa KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
FC 1:100

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Niemann Pick C1

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Niemann Pick C1 Rabbit Monoclonal Antibody - 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:[19563754](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/28336668)).

Cellular Location

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

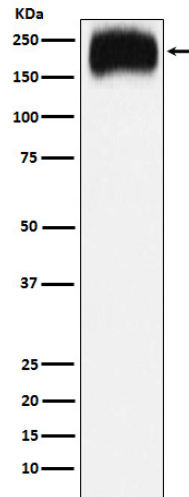
Anti-Niemann Pick C1 Rabbit Monoclonal Antibody - Protocols

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](#)

Anti-Niemann Pick C1 Rabbit Monoclonal Antibody - Images





Western blot analysis of Niemann Pick C1 expression in HepG2 cell lysate.