

**Product Name: Niemann Pick C1 (4L10) Rabbit
Monoclonal Antibody
Catalog #: AMRe14699**

Summary

Production Name	Niemann Pick C1 (4L10) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	NPC1
Alternative Names	Niemann Pick C1 protein precursor; NPC; NPC1;
Gene ID	4864.0
SwissProt ID	O15118.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	142kDa

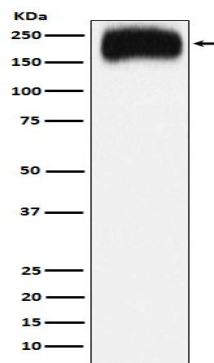
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Background

Involved in the intracellular trafficking of 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. 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: [9211849](http://www.uniprot.org/citations/9211849), PubMed: [9927649](http://www.uniprot.org/citations/9927649), PubMed: [10821832](http://www.uniprot.org/citations/10821832), PubMed: [18772377](http://www.uniprot.org/citations/18772377), PubMed: [27238017](http://www.uniprot.org/citations/27238017), PubMed: [12554680](http://www.uniprot.org/citations/12554680)). 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: [9211849](http://www.uniprot.org/citations/9211849), PubMed: [9927649](http://www.uniprot.org/citations/9927649), 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: [28784760](http://www.uniprot.org/citations/28784760)). 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).

Research Area

Image Data



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

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Note

For research use only.