

Anti-Niemann Pick C1 Rabbit Monoclonal Antibody

Catalog # ABO15231

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.

Additional Information

Gene ID	4864
Other Names	NPC intracellular cholesterol transporter 1 {ECO:0000312 HGNC:HGNC:7897}, Niemann-Pick C1 protein, NPC1 (HGNC:7897)
Calculated MW	142167
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 FC 1:100
Source	Eukaryota
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.
Clone Names	Clone: 18N07
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.

Protein Information

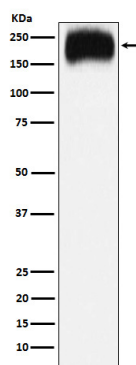
Name	NPC1 (HGNC:7897)
Function	Intracellular cholesterol transporter which acts in concert with NPC2 and plays an important role in the egress of cholesterol from the

endosomal/lysosomal compartment (PubMed:[10821832](#), PubMed:[12554680](#), PubMed:[18772377](#), PubMed:[27238017](#), PubMed:[9211849](#), PubMed:[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](#), PubMed:[19563754](#), PubMed:[27238017](#), PubMed:[27378690](#), PubMed:[28784760](#), PubMed:[9211849](#), PubMed:[9927649](#)). Cholesterol binds to NPC1 with the hydroxyl group buried in the binding pocket (PubMed:[19563754](#)). Mediates cholesterol transfer from lysosomes to endoplasmic reticulum by tethering endosomal/lysosomal compartments and endoplasmic reticulum membrane contact sites where it interacts with sterol transport protein GRAMD1B (PubMed:[31537798](#)). 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

Images



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

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