

Anti-NPC / NPC1 Antibody (clone 4H2)
Mouse Anti Human Monoclonal Antibody
Catalog # ALS18228**Specification**

Anti-NPC / NPC1 Antibody (clone 4H2) - Product Information

Application	WB, IHC-P, E
Primary Accession	O15118
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a,k
Calculated MW	142167

Anti-NPC / NPC1 Antibody (clone 4H2) - Additional Information**Gene ID** 4864**Alias Symbol** NPC1
Other Names
NPC1, NPC, Niemann-Pick C1 protein, Niemann-Pick disease, type C1**Target/Specificity**
Human NPC / NPC1**Reconstitution & Storage**
Protein A purified**Precautions**
Anti-NPC / NPC1 Antibody (clone 4H2) is for research use only and not for use in diagnostic or therapeutic procedures.**Anti-NPC / NPC1 Antibody (clone 4H2) - 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:9211849, PubMed:9927649, PubMed:10821832, PubMed:18772377, PubMed:27238017, PubMed: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),

PubMed:9927649,
PubMed:18772377,
PubMed:19563754,
PubMed:27238017,
PubMed:28784760,
PubMed:27378690).
Cholesterol binds to NPC1 with the hydroxyl group buried in the binding pocket (PubMed: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

Anti-NPC / NPC1 Antibody (clone 4H2) - 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-NPC / NPC1 Antibody (clone 4H2) - Images