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Niemann Pick C1 Rabbit mAb

Catalog No.: A4795   **Recombinant**

Basic Information

Observed MW
180kDa

Calculated MW
142kDa

Category
SMab Recombinant Monoclonal Antibody

Applications
WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity
Human,Mouse,Rat

CloneNo number
ARC2713

Background

This gene encodes a large protein that resides in the limiting membrane of endosomes and lysosomes and mediates intracellular cholesterol trafficking via binding of cholesterol to its N-terminal domain. It is predicted to have a cytoplasmic C-terminus, 13 transmembrane domains, and 3 large loops in the lumen of the endosome - the last loop being at the N-terminus. This protein transports low-density lipoproteins to late endosomal/lysosomal compartments where they are hydrolized and released as free cholesterol. Defects in this gene cause Niemann-Pick type C disease, a rare autosomal recessive neurodegenerative disorder characterized by over accumulation of cholesterol and glycosphingolipids in late endosomal/lysosomal compartments.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID
4864

Swiss Prot
O15118

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 1179-1278 of human Niemann Pick C1 (O15118).

Synonyms
NPC; POGZ; SLC65A1; Niemann Pick C1

Contact

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Product Information

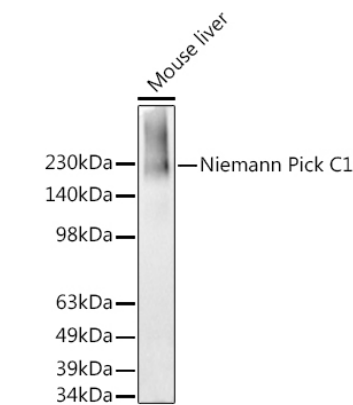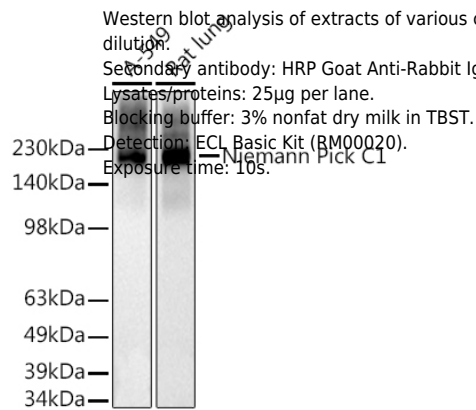| **Source**	**Isotype**	**Purification**
Rabbit	IgG	Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
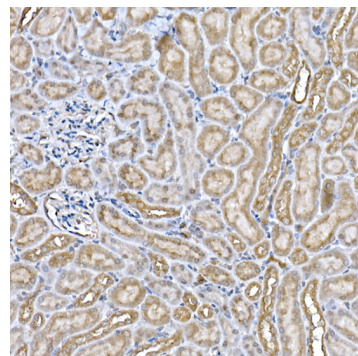Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.
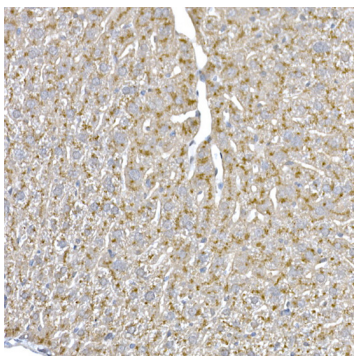
Validation Data

Western blot analysis of extracts of Mouse liver, using Niemann Pick C1 antibody (A4795) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
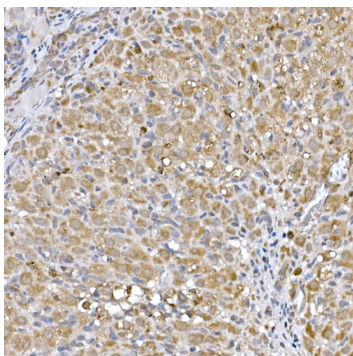Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

Western blot analysis of extracts of various cell lines, using Niemann Pick C1 antibody (A4795) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

Immunohistochemistry analysis of paraffin-embedded mouse kidney using Niemann Pick C1 Rabbit mAb (A4795) at dilution of 1:50 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.
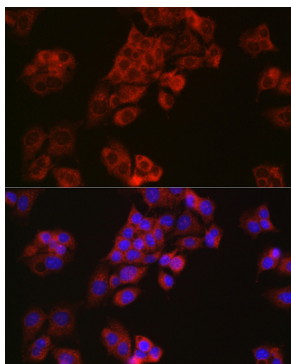
Immunohistochemistry analysis of paraffin-embedded mouse liver using Niemann Pick C1 Rabbit mAb (A4795) at dilution of 1:50 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.
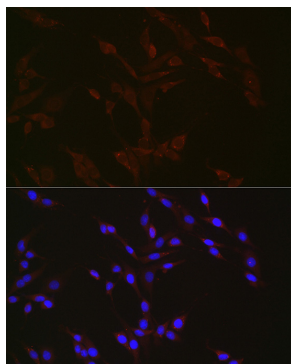
Immunohistochemistry analysis of paraffin-embedded rat ovary using Niemann Pick C1 Rabbit mAb (A4795) at dilution of 1:50 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

Validation Data

Immunofluorescence analysis of HepG2 cells using Niemann Pick C1 antibody (A4795) at dilution of 1:50. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of PC-12 cells using Niemann Pick C1 antibody (A4795) at dilution of 1:50. Blue: DAPI for nuclear staining.