

NPC1 Polyclonal Antibody

Catalog number: 13926-1-AP

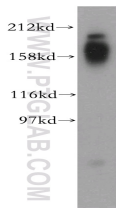
Size: 48 µg/150 µl

Source: Rabbit

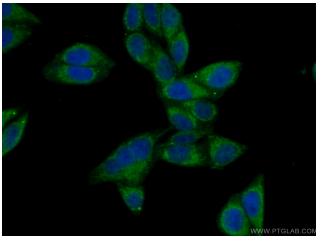
Isotype: IgG

Synonyms:

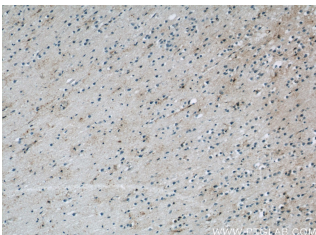
NPC1; Niemann Pick C1 protein, Niemann Pick disease, type C1, NPC1



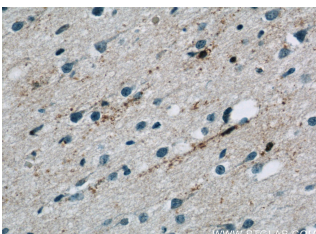
HEK-293 cells were subjected to SDS PAGE followed by western blot with 13926-1-AP (NPC1 antibody) at dilution of 1:1000



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 13926-1-AP (NPC1 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunohistochemistry of paraffin-embedded human brain tissue slide using 13926-1-AP (NPC1 Antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemistry of

Background

Niemann-Pick Type C (NPC) disease is a lysosomal storage disorder characterized by accumulation of unesterified cholesterol and other lipids in the endolysosomal system. NPC disease results from a defect in either of two distinct cholesterol-binding proteins: a transmembrane protein, NPC1, and a small soluble protein, NPC2. NPC1 or NPC2 deficiency models showed that the functions of these two proteins within lysosomes are linked closely. NPC1 is a typical transmembrane protein and contains a number of modification sites for glycosylation. Defects in NPC1 are the cause of Niemann-Pick disease type C1 which exhibits highly variable clinical phenotype. Moreover, NPC1 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.

Applications

Tested applications:	ELISA, WB, IHC, IF
Cited applications:	WB
Species specificity:	Human; other species not tested.
Cited species:	Human
Calculated NPC1 MW:	142 kDa
Observed NPC1 MW:	160 kDa, 170 kDa
Positive WB detected in	HEK-293 cells, HepG2 cells
Positive IHC detected in	Human brain tissue, human placenta tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:50-1:500

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4946
GenBank accession number:	BC063302
Gene ID (NCBI):	4864
Full name:	Niemann-Pick disease, type C1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

paraffin-embedded human
brain tissue slide using 13926-
1-AP(NPC1 Antibody) at
dilution of 1:50 (under 40x
lens)