For Research Use Only

NPC1 Polyclonal antibody Catalog Number:13926-1-AP Featured Product





Basic Information	Catalog Number: 13926-1-AP Size: 150ul , Concentration: 600 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG4946	GenBank Accession Number: BC063302 GeneID (NCBI): y 4864 UNIPROT ID: O15118 Full Name: Niemann-Pick disease, type C1 Calculated MW: 142 kDa Observed MW: 160-200 kDa		Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:200-1:800
Applications	Tested Applications:Positive Controls:WB, IHC, IF/ICC, FC (Intra), ELISAWB : unboiled HEK-293 cells, HEK-293 cells, HepG2 cells, unboiled mouse brain tissue, HeLa cellsWB, IHCIHCSpecies Specificity: human, mouseIHC : human liver cancer tissue, human placenta tissue, human brain tissueCited Species: human, mouse, pig, monkeyIF/ICC : Neuro-2a cells, HepG2 cellsNote-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0Positive Controls:			
Background Information	Niemann-Pick Type C (NPC) disease is a lysosomal storage disorder characterized by the 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.			
Notable Publications	Author Pu	ıbmed ID	Journal	Application
	Junfang Lyu 28	3923401	Cancer Lett	WB
	Guoli Li 34	4047913	Sci China Life Sci	WB
	Jian Xiao 3:	1144242	Sci China Life Sci	
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.			
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20°C	storage		

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

in USA), or 1(312) 455-8498 (outside USA)

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13926-1-AP (NPC1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of NPC1 antibody (13926-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NPC1 transfected HEK-293 cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed Neuro-2a cells using NPC1 antibody (13926-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 13926-1-AP (NPC1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 13926-1-AP (NPC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human NPC 1 (13926-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).