

For Research Use Only

# NPC2 Polyclonal antibody

Catalog Number: 19888-1-AP

Featured Product

10 Publications



## Basic Information

### Catalog Number:

19888-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13719

### GenBank Accession Number:

BC002532

### GeneID (NCBI):

10577

### UNIPROT ID:

P61916

### Full Name:

Niemann-Pick disease, type C2

### Calculated MW:

151 aa, 17 kDa

### Observed MW:

17-21 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HepG2 cells, HT-1080 cells, mouse lung tissue, mouse kidney tissue

**IHC** : human liver tissue,

## Background Information

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 function of these two proteins within lysosomes are linked closely. NPC2 is also named human epididymis-specific protein 1 (HE1), defects of which are the cause of Niemann-Pick disease type C2, characterized as a lysosomal storage disorder that affects the viscera and the central nervous system. Recent finding suggests that NPC2 may serve as a novel intracrine/autocrine factor that controls adipocyte differentiation and function as well as potential therapeutic target for the treatment of type 2 diabetes and related metabolic disorders.

## Notable Publications

Author	Pubmed ID	Journal	Application
Rong Zhang	27383988	Nature	WB
Dongke Xu	35908039	Nat Commun	WB
Yunkai Zhu	33574281	Nat Commun	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

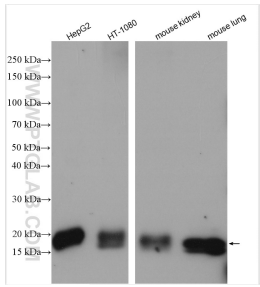
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

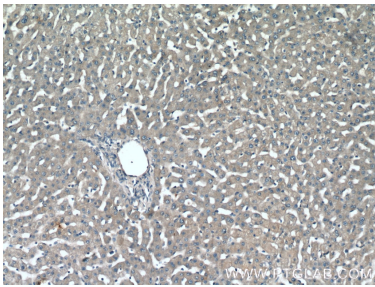
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

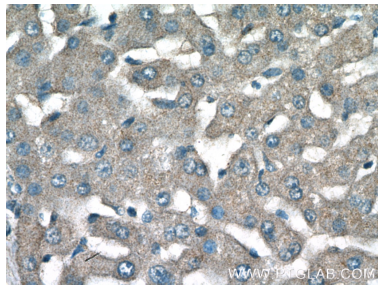
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 19888-1-AP (NPC2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 19888-1-AP (NPC2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 19888-1-AP (NPC2 Antibody) at dilution of 1:200 (under 40x lens).