

NPC1 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA4824
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human NPC1 (AA: 34-174) expressed in E. Coli.
Mol wt	142.2kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	IHC,FCM
Concentration	N/A
Full name	N/A
Synonyms	NPC

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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 hydrolyzed 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 Dilution

WB: 1:500 - 1:2000

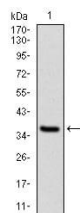
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

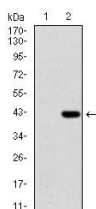
ELISA: 1:10000

Not yet tested in other applications.

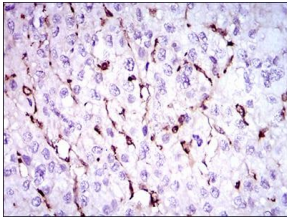
Images



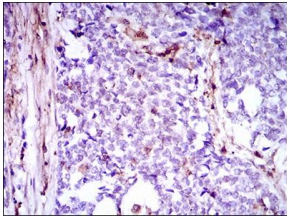
Western blot analysis using NPC1 mAb against human NPC1 recombinant protein. (Expected MW is 37.6 kDa)



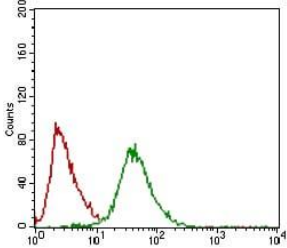
Western blot analysis using NPC1 mAb against HEK293 (1) and NPC1 (AA: 34-174)-hlgGfc transfected HEK293 (2) cell lysate.



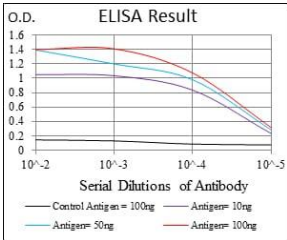
Immunohistochemical analysis of paraffin-embedded liver cancer tissues using NPC1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using NPC1 mouse mAb with DAB staining.



Flow cytometric analysis of HeLa cells using NPC1 mouse mAb (green) and negative control (red).



Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.