

Basic Information

Product Name	Anti-NPC2 Antibody	
Gene Name	NPC2	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, FCM, ICC/IF, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived human Niemann Pick C2/NPC2 recombinant protein (Position: E20-L151). Human NPC2 shares 81.5% and 83.6% amino acid (aa) sequence identity with mouse and rat NPC2, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	16-19 kDa	
Dilution Ratios	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400
	Flow Cytometry (Fixed):	1:50-200
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

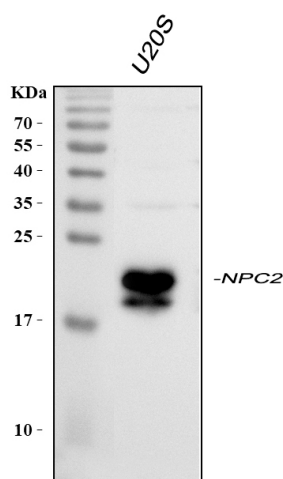
Epididymal secretory protein E1 (also called NPC intracellular cholesterol transporter 2, or NPC2) is a protein associated with Niemann-Pick disease, type C. It is mapped to 14q24.3. This gene encodes a protein containing a lipid recognition domain. The encoded protein may function in regulating the transport of cholesterol through the late endosomal/lysosomal system. Mutations in this gene have been associated with Niemann-Pick disease, type C2 and

frontal lobe atrophy.

Reference

Anti-NPC2 Antibody被引用在1文献中。

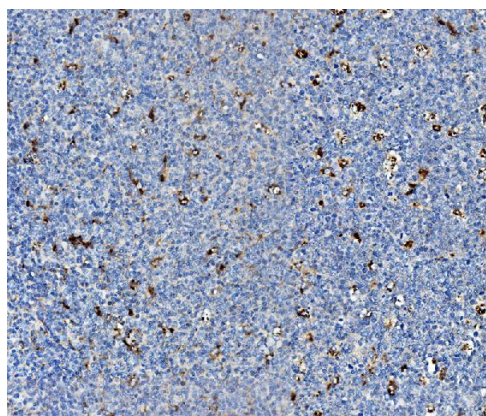
Selected Validation Data



Western blot analysis of anti- NPC2 antibody (A01582-3). The sample well of each lane was loaded with 30ug of sample under reducing conditions.

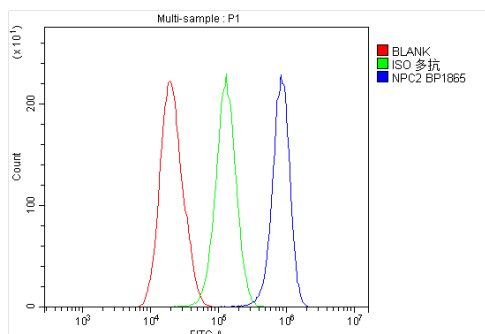
Lane 1: human U2OS whole cell lysates.

Use rabbit anti- NPC2 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for NPC2 at approximately 19KD. The expected band size for NPC2 is at 16KD.



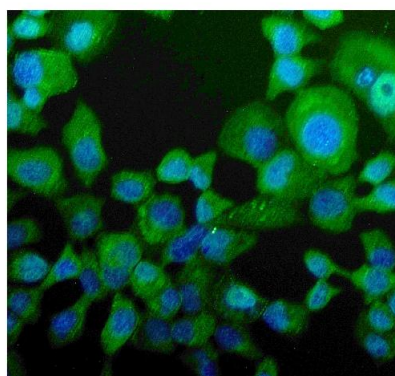
IHC analysis of NPC2 using anti-NPC2 antibody (A01582-3).

NPC2 was detected in a paraffin-embedded section of human tonsil tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-NPC2 Antibody (A01582-3) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of HepG2 cells using anti-NPC2 antibody (A01582-3).

Overlay histogram showing HepG2 cells stained with A01582-3 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NPC2 Antibody (A01582-3) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



ICC/IF analysis of NPC2 using anti-NPC2 antibody (A01582-3).

NPC2 was detected in an immunocytochemical section of A431 cells. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).