



Anti-NPC1 polyclonal antibody (CABT-B8977)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Specificity | This antibody recognizes the cytoplasmic domain of NPC1. |
| Immunogen | KLH-conjugated linear peptide corresponding to the cytoplasmic domain of human NPC1. |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human, Mouse, Rat |
| Purification | Affinity Purified |
| Conjugate | Unconjugated |
| Applications | WB |
| Epitope | Cytoplasmic domain |
| Format | Liquid |
| Size | 100 µl |
| Buffer | 0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl with 0.05% sodium azide. |
| Preservative | 0.05% Sodium Azide |
| Storage | Stable for 1 year at 2-8°C from date of receipt. |

BACKGROUND

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| Introduction | Niemann-Pick C1 protein (NPC1) functions as an intracellular cholesterol transporter. NPC1 acts in concert with NPC2 to catalyze the mobilization of cholesterol within the multivesicular |
|---------------------|--|

environment of the late endosome (LE)/ lysosomes to the ER and plasma membrane by an unknown mechanism. Cholesterol binds to NPC1 with the hydroxyl group buried in its binding pocket, but NPC1 binds oxysterol with higher affinity than cholesterol. NPC1 also has a possible role in vesicular trafficking in glia. NPC1 defects may cause Niemann-Pick disease type C1 (NPC1).

Keywords

NPC1; Niemann Pick type C1; Niemann-Pick C1 protein; sphingomyelinosis; spm; lcsd; C85354; nmf164; D18Erttd139e; D18Erttd723e; A430089E03Rik

GENE INFORMATION

Entrez Gene ID

[4864](#)

UniProt ID

[O15118](#)
