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Datasheet for ABIN7161729
anti-NPC1 antibody (AA 23-269) (FITC)

Overview

Quantity:	100 µg
Target:	NPC1
Binding Specificity:	AA 23-269
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NPC1 antibody is conjugated to FITC
Application:	Please inquire

Product Details

Immunogen:	Recombinant Human NPC intracellular cholesterol transporter 1 protein (23-269AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	NPC1
Alternative Name:	NPC1 (NPC1 Products)
Background:	Background: Intracellular cholesterol transporter which acts in concert with NPC2 and plays an important role in the egress of cholesterol from the endosomal/lysosomal compartment. Both

Target Details

NPC1 and NPC2 function as the cellular 'tag team duo' (TTD) to catalyze the mobilization of cholesterol within the multivesicular environment of the late endosome (LE) to effect egress through the limiting bilayer of the LE. NPC2 binds unesterified cholesterol that has been released from LDLs in the lumen of the late endosomes/lysosomes and transfers it to the cholesterol-binding pocket of the N-terminal domain of NPC1. Cholesterol binds to NPC1 with the hydroxyl group buried in the binding pocket and is exported from the limiting membrane of late endosomes/lysosomes to the ER and plasma membrane by an unknown mechanism. Binds oxysterol with higher affinity than cholesterol. 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.

Aliases: Niemann Pick C1 protein precursor antibody, Niemann Pick disease, type C1 antibody, Niemann-Pick C1 protein antibody, NPC antibody, NPC1 antibody, NPC1_HUMAN antibody

UniProt: [O15118](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.