Datasheet for ABIN6991123

anti-NPC1 antibody (C-Term)

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Overview

Quantity:	0.1 mg
Target:	NPC1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NPC1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	NPC1 antibody was raised against a 16 amino acid synthetic peptide from near the carboxy terminus of human NPC1. The immunogen is located within the last 50 amino acids of NPC1.
Isotype:	IgG
Purification:	NPC1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	NPC1
Alternative Name:	NPC1 (NPC1 Products)
Background:	NPC1 Antibody: Mutations in the Niemann-Pick disease type C1 (NPC1) gene result in a fatal progressive neurodegenerative disorder characterized by an abnormal sequestration of lipids

Target Details

	including cholesterol and glycosphingolipids. The NPC1 protein is 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. NPC1 transports low-density lipoproteins to late endosomal/lysosomal compartments where they are hydrolized and released as free cholesterol. NPC1, in addition to FTO, MC4R, and PTER has recently been shown to be a new risk loci for early-onset and morbid adult obesity in European populations. This anti-NPC1 antibody will not cross-react to NPC2, another gene whose defects also result in Niemann-Pick type C disease.
Molecular Weight:	Predicted: 140 kDa Observed: 150 kDa
Gene ID:	4864
NCBI Accession:	NP_000262
UniProt:	O15118

Application Details

Application Notes:	NPC1 antibody can be used for detection of NPC1 by Western blot at 1 µ,g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µ,g/mL. For immunofluorescence start at 20 µ,g/mL. Antibody validated: Western Blot in human samples, Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	NPC1 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C,4 °C
Storage Comment:	NPC1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.