## 5058

## **NPC1L1 Antibody**



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	Source/Isotype: Rabbit	<b>UniProt ID:</b> #Q9UHC9	Entrez-Gene Id: 29881
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		NPC1L1 Antibody detects endogenous levels of total NPC1L1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to central residues of human NPC1L1 protein. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		Niemann-Pick C1-like 1 (NPC1L1) is a transmembrane protein that plays a critical role in cholesterol absorption (1). It is highly expressed in small intestine and localized along the brush border in both human and mouse epithelial cells (2,3). NPC1L1 mediates cholesterol uptake via vesicular endocytosis (4). Ezetimibe, a potent cholesterol absorption inhibitor used to treat hypercholesterolemia (5), inhibits cholesterol uptake by preventing NPC1L1 from incorporating into clathrin-coated vesicles (4).				
Background References		1. Altmann, S.W. et al. (2004) <i>Science</i> 303, 1201-4. 2. Davis, H.R. et al. (2004) <i>J Biol Chem</i> 279, 33586-92. 3. Sané, A.T. et al. (2006) <i>J Lipid Res</i> 47, 2112-20. 4. Ge, L. et al. (2008) <i>Cell Metab</i> 7, 508-19. 5. Davis, H.R. and Veltri, E.P. (2007) <i>J Atheroscler Thromb</i> 14, 99-108.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
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