

#5058 Store at -20°C

NPC1L1 Antibody


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	140	Rabbit	#Q9UHC9	29881

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/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	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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