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LRP1 Antibody



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit	UniProt ID: #Q07954	Entrez-Gene Id: 4035		
Product Usage Information	9	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/Ser	sitivity	LRP1 Antibody recognizes endogenous levels of total LRP1 β subunit.						
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human LRP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Low density lipoprotein receptor related protein 1 (LRP1) is a type I transmembrane receptor that mediates the endocytosis of various ligands (1). LRP1 plays important roles in lipid homeostasis, signaling transduction, embryonic development, and glucose metabolism (2-6). In addition, LRP1 regulates APP processing and facilitates the clearance of beta-amyloid (7-9). This finding makes LRP1 a potential therapeutic target for Alzheimer's disease. LRP1 preprotein is proteolytically processed by furin to generate a 515 kDa extracellular α subunit and a membrane-anchored 85 kDa β subunit, which together form the mature receptor (10).						
Background R	eferences	 Lillis, A.P. et al. (2008) <i>Physiol Rev</i> 88, 887-918. Herz, J. et al. (1988) <i>EMBO J</i> 7, 4119-27. van der Geer, P. (2002) <i>Trends Cardiovasc Med</i> 12, 160-5. May, P. and Herz, J. (2003) <i>Traffic</i> 4, 291-301. Zilberberg, A. et al. (2004) <i>J Biol Chem</i> 279, 17535-42. Hofmann, S.M. et al. (2007) <i>J Clin Invest</i> 117, 3271-82. Cam, J.A. et al. (2005) <i>J Biol Chem</i> 280, 15464-70. Bu, G. et al. (2006) <i>Ann N Y Acad Sci</i> 1086, 35-53. Bell, R.D. et al. (2009) <i>Nat Cell Biol</i> 11, 143-53. Willnow, T.E. et al. (1996) <i>Biochem J</i> 313 (Pt 1), 71-6. 						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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