

LRP1 Antibody



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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 85	Source/Isotype: Rabbit	UniProt ID: #Q07954	Entrez-Gene Id: 4035
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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

LRP1 Antibody recognizes endogenous levels of total LRP1 β subunit.

Source / Purification

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 References

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- Herz, J. et al. (1988) *EMBO J* 7, 4119-27.
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- May, P. and Herz, J. (2003) *Traffic* 4, 291-301.
- Zilberberg, A. et al. (2004) *J Biol Chem* 279, 17535-42.
- Hofmann, S.M. et al. (2007) *J Clin Invest* 117, 3271-82.
- Cam, J.A. et al. (2005) *J Biol Chem* 280, 15464-70.
- Bu, G. et al. (2006) *Ann N Y Acad Sci* 1086, 35-53.
- Bell, R.D. et al. (2009) *Nat Cell Biol* 11, 143-53.
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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 **M:** Mouse **R:** Rat

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