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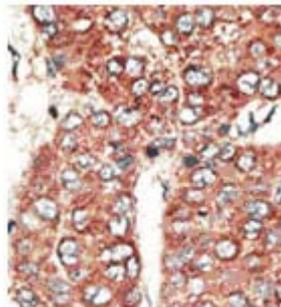
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### Box 1 | Basic Info

Cat. No.	ABP-PAB-10775
Animal ID	RB1833-1834
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_004525
Amount	100µg

**Alternative Name(s):** GP330, megalin, LRP2, Low-density lipoprotein receptor-related protein 2



Human Helatocarcinoma

## LRP2, low-density lipoprotein receptor-related protein 2 polyclonal antibody

Low-density lipoprotein receptor-related protein 2 (LRP2), also called glycoprotein 330 or megalin, is a member of the low density lipoprotein receptor (LDLR) family which consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. LDLR proteins are comprised of the same basic structural motifs: (i) an extracellular domain which contains LDLR binding repeats, and EGF repeats with associated spacer domains containing the YWTD motif; (ii) a single transmembrane-spanning domain; and (iii) a C-terminal cytoplasmic domain which generally contains at least 1 copy of the NPXY motif. LRP2 is part of the Heymann nephritis antigenic complex with RAP and is a member of a family of receptors with structural similarities to the low density lipoprotein receptor. LRP2 mediates endocytosis, and amino acids 107-136 containing the second NPXY-like motif are critical for apical sorting and targeting, whereas the regions containing the first and third NPXY motifs are required for efficient endocytosis..

### Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

### Immunogen

KLH conjugated synthetic peptide comprised of amino acids 4641 - 4655 [TFKDTANLVKEDSEV] of the human low-density lipoprotein receptor-related protein 2 (LRP2) protein.

### Application:

Tested by peptide-specific ELISA (1:1,000). IHC (1:50 ~1:100)

### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

### References:

- Christensen EI, Birn H: Megalin and cubilin: multifunctional endocytic receptors. *Nat. Rev. Mol. Cell. Biol.* 3(4): 256-266 (2002). Review.
- Hjalm G, Murray E, Crumley G, Harazim W, Lundgren S, Onyango I, Ek B, Larsson M, Juhlin C, Hellman P, Davis H, Akerstrom G, Rask L, Morse B: Cloning and sequencing of human gp330, a Ca(2+)-binding receptor with potential intracellular signaling properties. *Eur. J. Biochem.* 239(1): 132-137 (1996).
- Korenberg JR, Argraves KM, Chen XN, Tran H, Strickland DK, Argraves WS: Chromosomal localization of human genes for the LDL receptor family member glycoprotein 330 (LRP2) and its associated protein RAP (LRPAP1). *Genomics* 22(1): 88-93 (1994).
- Kounnas MZ, Loukinova EB, Stefansson S, Harmony JA, Brewer BH, Strickland DK, Argraves WS: Identification of glycoprotein 330 as an endocytic receptor for apolipoprotein J/clusterin. *J Biol. Chem.* 270(22): 13070-13075 (1995).
- Farquhar MG: The unfolding story of megalin (gp330): now recognized as a drug receptor. *J. Clin. Invest.* 96(3): 1184 (1995). Review.
- Farquhar MG, Saito A, Kerjaschki D, Orlando RA: The Heymann nephritis antigenic complex: megalin (gp330) and RAP. *J. Am. Soc. Nephrol.* 6(1): 35-47 (1995). Review.
- Raychowdhury R, Niles JL, McCluskey RT, Smith JA: Autoimmune target in Heymann nephritis is a glycoprotein with homology to the LDL receptor. *Science* 244(4909): 1163-1165 (1989).