

## AP07135PU-N

## Polyclonal Antibody to LRP2 (4641-4655) - Purified

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alternate names:</b>    | Glycoprotein 330, LRP-2, Low-density lipoprotein receptor-related protein 2, Megalin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Quantity:</b>           | 50 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration:</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Background:</b>         | Lrp2 belongs to the LDLR family and contains 17 EGF-like domains, 36 LDL-receptor class A domains and 37 LDL-receptor class B repeats. Lrp2 specifically binds clusterin with high affinity, but also ligands in common with other family members: plasminogen, extracellular matrix components, plasminogen activator-plasminogen activator inhibitor type I complex, apolipoprotein E-enriched beta-VLDL, lipoprotein lipase, lactoferrin and calcium. It is involved in receptor-mediated uptake of polybasic drugs such as aprotinin, aminoglycosides and polymyxin B. Also it may participate in regulation of parathyroid-hormone and para-thyroid-hormone-related protein release. Lrp2 forms a multimeric complex together with a receptor-associated protein (RAP). It binds to ankyrin-repeat family A protein 2 (ANKRA2). It is present in absorptive epithelia, including renal proximal tubules. |
| <b>Uniprot ID:</b>         | <a href="#">P98164</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>NCBI:</b>               | <a href="#">NP_004516.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>GeneID:</b>             | <a href="#">4036</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Host:</b>               | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen:</b>          | Synthetic peptide from aa4641-4655 of human LRP2 / Megalin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Format:</b>             | <b>State:</b> Liquid purified Ig fraction<br><b>Purification:</b> Protein G purified<br><b>Buffer System:</b> PBS with 0.09% Sodium Azide as preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications:</b>       | <b>ELISA:</b> 1/1000.<br><b>Immunohistochemistry on Paraffin Sections:</b> 2.5 µg/ml.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Specificity:</b>        | This antibody detects Low-density Lipoprotein Receptor-related Protein 2 (LRP2) at aa 4641-4655.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species Reactivity:</b> | <b>Tested:</b> Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage:</b>            | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Product Citations:</b>  | <b>Originator or purchased from resellers:</b><br>1. Day RT, Cavaglieri RC, Feliers D. Apelin retards the progression of diabetic nephropathy. Am J Physiol Renal Physiol. 2013 Mar 15;304(6):F788-800. doi: 10.1152/ajprenal.00306.2012. Epub 2013 Jan 9. PubMed PMID: 23303408.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Pictures:**

Kidney Cortex: Formalin-Fixed Paraffin-Embedded (FFPE)

