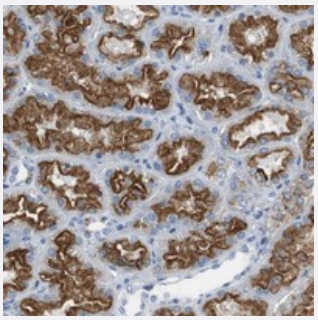
# LRP2 polyclonal antibody

Catalog # PAB20330 Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human kidney with LRP2 polyclonal antibody (Cat # PAB20330) shows strong cytoplasmic membranous and extracellular positivity in cells in tubules at 1:50-1:200 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against recombinant LRP2. |
| **Immunogen** | Recombinant protein corresponding to amino acids of human LRP2. |
| **Sequence** | GFTSMSDRPGKRCAAEGSSPLLLLPDNVRIRKYNLSSERFSEYLQDEEYIQAVDYDWDPEDIGLS VVYYTVRGEGSRFGAIKRAYIPNFESGRNNLVQEVDLKLKYVMQPDGIAVDWVGRHIYWSDVKNK RIEVAKLDGRYRKWLISTDL |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Antigen affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunohistochemistry (1:50-1:200)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide) |

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| | |
|---|---|
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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## Gene Info — LRP2

| | |
|---|---|
| **Entrez GeneID** | 4036 |
| **Protein Accession#** | P98164 |
| **Gene Name** | LRP2 |
| **Gene Alias** | DBS, gp330 |
| **Gene Description** | low density lipoprotein-related protein 2 |
| **Omim ID** | 222448 600073 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene, low density lipoprotein-related protein 2 (LRP2) or megalin, is a multi-ligand endocytic receptor that is expressed in many different tissues but primarily in absor ptive epithilial tissues such as the kidney. This glycoprotein has a large amino-terminal extracellul ar domain, a single transmembrane domain, and a short carboxy-terminal cytoplasmic tail. The ex tracellular ligand-binding-domains bind diverse macromolecules including albumin, apolipoprotei ns B and E, and lipoprotein lipase. The LRP2 protein is critical for the reuptake of numerous ligan ds, including lipoproteins, sterols, vitamin-binding proteins, and hormones. This protein also has a role in cell-signaling; extracellular ligands include parathyroid horomones and the morphogen soni c hedgehog while cytosolic ligands include MAP kinase scaffold proteins and JNK interacting prot eins. Recycling of this membrane receptor is regulated by phosphorylation of its cytoplasmic dom ain. Mutations in this gene cause Donnai-Barrow syndrome (DBS) and facio-oculoacoustico-renal syndrome (FOAR) |
| **Other Designations** | Heymann nephritis antigen homolog\|calcium sensor protein\|megalin |

## Pathway

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- Hedgehog signaling pathway

## Disease

- Alcoholism
- Alzheimer Disease
- Atherosclerosis
- Cardiovascular Diseases
- Conduct Disorder
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Diseases
- Genetic Predisposition to Disease
- Hearing Disorders
- Hypercholesterolemia
- Hyperlipidemias
- Neoplasms
- Prostate cancer
- Prostatic Neoplasms
- Recurrence
- Tobacco Use Disorder

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