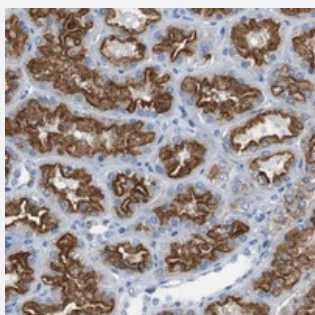


LRP2 polyclonal antibody

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	GFTSMSDRPGKRCAAEGSSPLLLPDNVRIRKYNLSSERFSEYLQDEEYQAVDYDWDPEDIGLS VVYYTVRGEGRFSGAIKRAYIPNFESGRNNLVQEVDLKLKYVMQPDGIAVDWVGRHIWSDVKNK RIEVAKLDGRYRKWLSTDL
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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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 absorptive epithelial tissues such as the kidney. This glycoprotein has a large amino-terminal extracellular domain, a single transmembrane domain, and a short carboxy-terminal cytoplasmic tail. The extracellular ligand-binding domains bind diverse macromolecules including albumin, apolipoproteins B and E, and lipoprotein lipase. The LRP2 protein is critical for the reuptake of numerous ligands, including lipoproteins, sterols, vitamin-binding proteins, and hormones. This protein also has a role in cell-signaling; extracellular ligands include parathyroid hormones and the morphogen sonic hedgehog while cytosolic ligands include MAP kinase scaffold proteins and JNK interacting proteins. Recycling of this membrane receptor is regulated by phosphorylation of its cytoplasmic domain. 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

- [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](#)