Datasheet for ABIN1680712

anti-LRP2 antibody (AA 4446-4655)

2 Images

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Overview

Quantity:	100 µg
Target:	LRP2
Binding Specificity:	AA 4446-4655
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LRP2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 4446-4655 of human LRP2 (NP_004516.2).
Sequence:	FHYRRTGSLL PALPKLPSLS SLVKPSENGN GVTFRSGADL NMDIGVSGFG PETAIDRSMA MSEDFVMEMG KQPIIFENPM YSARDSAVKV VQPIQVTVSE NVDNKNYGSP INPSEIVPET NPTSPAADGT QVTKWNLFKR KSKQTTNFEN PIYAQMENEQ KESVAATPPP SPSLPAKPKP PSRRDPTPTY SATEDTFKDT ANLVKEDSEV
Isotype:	IgG
Cross-Reactivity:	Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	LRP2
Alternative Name:	LRP2 (LRP2 Products)
Background:	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 epithilial 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 horomones 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).,LRP2,DBS,GP330,Cancer,Cell Biology & Developmental Biology,Endocrine & Metabolism,Lipid Metabolism,Endocrine and metabolic diseases,Obesity,Stem Cells,Cardiovascular,Lipids,Fatty Acids,LRP2
Molecular Weight:	521 kDa
Gene ID:	4036
UniProt:	P98164
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Thyroid Hormone Synthesis, Hormone Transport

Application Details

Application Notes:	WB,1:200 - 1:1000,IHC,1:20 - 1:100
Restrictions:	For Research Use only

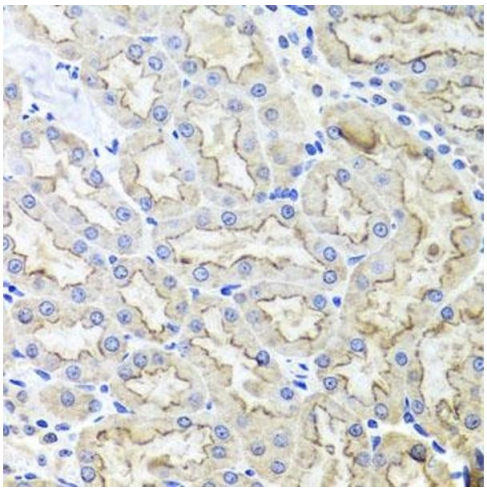
Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

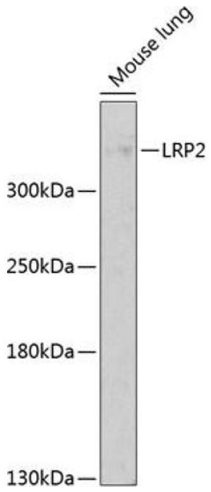
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat kidney using LRP2 antibody (ABIN1680712, ABIN3017881, ABIN3017882 and ABIN6220293) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of mouse lung, using LRP2 antibody (ABIN1680712, ABIN3017881, ABIN3017882 and ABIN6220293) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 20s.