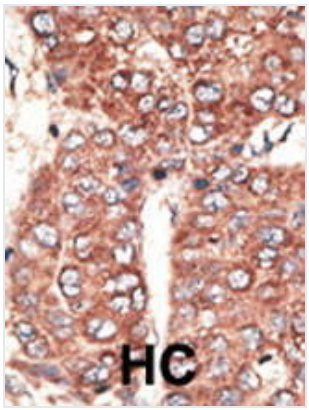
LRP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LRP2, Polyclonal Antibody
Full Product Name	LRP2, CT (Low-density Lipoprotein Receptor-related Protein 2, Megalin, Glycoprotein 330, gp330) (FITC)
Product Gene Name	anti-LRP2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human LRP2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	521.919
OMIM	phenotype 600073
3D Structure	ModBase 3D Structure for P98164
Immunogen	Synthetic peptide selected from the C-terminal region of human LRP2 (KLH).
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-LRP2 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-LRP2 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-LRP2 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-LRP2 antibody	MBS6485227 is an antibody targeting LRP2. Also known as LRP2, CT (Low-density Lipoprotein Receptor-related Protein 2, Megalin, Glycoprotein 330, gp330) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-LRP2 antibody	1. Christensen, E.I., et al., Nat. Rev. Mol. Cell Biol. 3(4):256-266 (2002). 2. Hjalm, G., et al., Eur. J. Biochem. 239(1):132-137 (1996). 3. Farquhar, M.G., et al., J. Am. Soc. Nephrol. 6(1):35-47 (1995). 4. Kounnas, M.Z., et al., J. Biol. Chem. 270(22):13070-13075 (1995). 5. Korenberg, J.R., et al., Genomics 22(1):88-93 (1994).
Other Notes	Small volumes of anti-LRP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-LRP2 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LRP2. It may not necessarily be applicable to this product.

NCBI GI #	126012573
NCBI GeneID	4036
NCBI Accession #	NP_004516
UniProt Primary Accession #	P98164
UniProt Related Accession #	P98164
GenBank Nucleotide #	NP_004516.2
NCBI Official Full Name	low-density lipoprotein receptor-related protein 2
NCBI Official Synonym Full Names	LDL receptor related protein 2
NCBI Official Symbol	LRP2
NCBI Official Synonym Symbols	DBS; GP330; LRP-2
UniProt Protein Name	Low-density lipoprotein receptor-related protein 2
UniProt Synonym Protein Names	Glycoprotein 330; gp330; Megalin
Protein Family	Low-density lipoprotein receptor-related protein
UniProt Gene Name	LRP2
UniProt Synonym Gene Names	LRP-2; gp330
UniProt Entry Name	LRP2_HUMAN
NCBI Protein Information	low-density lipoprotein receptor-related protein 2
NCBI Summary for LRP2	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).[provided by RefSeq, Aug 2009]

UniProt Comments for LRP2	LRP2: Acts together with cubilin to mediate HDL endocytosis. May participate in regulation of parathyroid- hormone and para-thyroid-hormone-related protein release. Defects in LRP2 are the cause of Donnai-Barrow syndrome (DBS); also known as facio-oculo-acoustico-renal syndrome (FOAR syndrome). DBS is a rare autosomal recessive disorder characterized by major malformations including agenesis of the corpus callosum, congenital diaphragmatic hernia, facial dysmorphology, ocular anomalies, sensorineural hearing loss and developmental delay. The FOAR syndrome was first described as comprising facial anomalies, ocular anomalies, sensorineural hearing loss, and proteinuria. DBS and FOAR were first described as distinct disorders but the classic distinguishing features between the 2 disorders were presence of proteinuria and absence of diaphragmatic hernia and corpus callosum anomalies in FOAR. Early reports noted that the 2 disorders shared many phenotypic features and may be identical. Although there is variability in the expression of some features (e.g. agenesis of the corpus callosum and proteinuria), DBS and FOAR are now considered to represent the same entity. Belongs to the LDLR family. Protein type: Membrane protein, integral; Motility/polarity/chemotaxis; Receptor, misc. Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: Golgi apparatus; endoplasmic reticulum; brush border membrane; endocytic vesicle; lysosomal membrane; lysosome; apical plasma membrane; integral to membrane; plasma membrane; coated pit; endosome; receptor complex Molecular Function: protein binding; calcium ion binding; SH3 domain binding Biological Process: steroid metabolic process; receptor-mediated endocytosis; cell proliferation; phototransduction, visible light; forebrain development; protein amino acid glycosylation; endocytosis; lipid metabolic process; retinoid metabolic process; vitamin D metabolic process Disease: Donnai-barrow Syndrome
Research Articles on LRP2	**1.** megalin is associated with progression factors of diabetic nephropathy as well as vitamin D deficiency
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