

Rabbit LRP1 Polyclonal Antibody | anti-LRP1 antibody

LRP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323678	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

LRP1; Polyclonal Antibody; LRP1 Antibody; A2MR; Alpha 2 macroglobulin receptor; alpha 2MR; Alpha-2-macroglobulin receptor; APOER; Apolipoprotein E receptor; APR; CD 91; CD91; CD91 antigen; IGFBP3R; LDL receptor related protein 1; Low density lipoprotein receptor related protein 1; Low density lipoprotein related protein 1; Low-density lipoprotein receptor-related protein 1 intracellular domain; LRP 1; LRP 515; LRP 85; LRP; LRP ICD; LRP-1; LRP-515; LRP-85; Lrp1; LRP1 protein; LRP1_HUMAN; LRP1A; LRP515; LRP85; LRPICD; MGC88725; Prolow density lipoprotein receptor related protein 1; TbetaR V/LRP 1/IGFBP 3 receptor; TbetaRV/LRP1/IGFBP3 receptor; TGFBR 5; TGFBR5; Type V tgf beta receptor; anti-LRP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LRP1 antibody detects endogenous levels of total LRP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	4544
Applicable Applications for anti-LRP1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LRP1
Subcellular Location	Cytoplasm. Nucleus. After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus and cell membrane. Membrane, Coated Pit.
Tissue Specificity	Most abundant in liver, brain and lung.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
AAA323678 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA323678 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of LRP1 using HepG2 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-LRP1 antibody

Function: Endocytic receptor involved in endocytosis and in phagocytosis of apoptotic cells. Required for early embryonic development. Involved in cellular lipid homeostasis. Involved in the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha 2-macroglobulin), as well as the local metabolism of complexes between plasminogen activators and their endogenous inhibitors. May modulate cellular events, such as APP metabolism, kinase-dependent intracellular signaling, neuronal calcium signaling as well as neurotransmission (PubMed:11907044, PubMed:12888553, PubMed:12713657). Acts as an alpha-2-macroglobulin receptor (PubMed:26142438).

Subunit Structure: Heterodimer of an 85-kDa membrane-bound carboxyl subunit and a non-covalently attached 515-kDa N-terminal subunit. Intracellular domain interacts with MAFB (By similarity). Found in a complex with PID1/PCL11, LRP1 and CUBN1. Interacts with SNX17, PID1/PCL11, PDGF and CUBN. The intracellular domain interacts with SHC1, GULP1 and DAB1. Interacts with LRPAP1. Can weakly interact (via NPXY motif) with DAB2 (via PID domain); the interaction is enhanced by tyrosine phosphorylation of the NPXY motif. Interacts with bacterial exotoxins.

Post-translational Modifications: Cleaved into a 85 kDa membrane-spanning subunit (LRP-85) and a 515 kDa large extracellular domain (LRP-515) that remains non-covalently associated. Gamma-secretase-dependent cleavage of LRP-85 releases the intracellular domain from the membrane. The N-terminus is blocked. Phosphorylated on serine and threonine residues. Phosphorylated on tyrosine residues upon stimulation with PDGF. Tyrosine phosphorylation promotes interaction with SHC1.

Similarity: Belongs to the LDLR family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	126012562
NCBI GeneID	4035
NCBI Accession #	NP_002323.2
NCBI GenBank Nucleotide #	NM_002332.2
UniProt Accession #	Q07954; Q2PP12; Q86SW0; Q8IVG8
Molecular Weight	Observed: 85 kDa Predicted: 505 kDa
NCBI Official Full Name	prolow-density lipoprotein receptor-related protein 1 preproprotein
NCBI Official Synonym Full Names	LDL receptor related protein 1
NCBI Official Symbol	LRP1
NCBI Official Synonym Symbols	APR; KPA; LRP; A2MR; CD91; APOER; LRP1A; TGFB5; IGF3R; IGF3R; IGF3R

NCBI Protein Information	prolow-density lipoprotein receptor-related protein 1
UniProt Protein Name	Prolow-density lipoprotein receptor-related protein 1
UniProt Gene Name	LRP1
UniProt Synonym Gene Names	A2MR; APR; A2MR; APOER; LRP-85; LRP-515; LRPICD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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