

Rabbit LRP1/CD91 Polyclonal Antibody | anti-LRP1/CD91 antibody

Phospho-LRP1/CD91 (Ser4520) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329759	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Dog (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

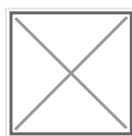
LRP1/CD91; Polyclonal Antibody; Phospho-LRP1/CD91 (Ser4520) Antibody; A2MR; Alpha 2 macroglobulin receptor; alpha 2MR; Alpha-2-macroglobulin receptor; APOER; Apolipoprotein E receptor; APR; CD 91; CD91; CD91 antigen; IGFBP3R; LDL receptor related protein 1; Low density lipoprotein receptor related protein 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; TbetaRV/LRP 1/IGFBP 3 receptor; TbetaRV/LRP1/IGFBP3 receptor; TGFBR 5; TGFBR5; Type V tgf beta receptor; anti-LRP1/CD91 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Dog (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-LRP1/CD91 (Ser4520) Antibody detects endogenous levels of LRP1/CD91 only when phosphorylated at Ser4520. Tissue Specificity: Most abundant in liver, brain and lung.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-LRP1/CD91 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LRP1/CD91 around the phosphorylation site of Ser4520.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Cleaved into a 85kDa membrane-spanning subunit (LRP-85) and a 515kDa 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.

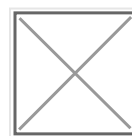
Subunit Structure	Heterodimer of an 85-kDa membrane-bound carboxyl subunit and a non-covalently attached 515-kDa N-terminal subunit. Intracellular domain interacts with MAFB (By similarity). Found in a complex with PID1/PCL11, LRP1 and CUBN1. Interacts with SNX17, PID1/PCL11, PDGF and CUBN. The intracellular 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. Interacts with MDK; promotes neuronal survival. Interacts with uPA/PLAU and PAI1/SERPINE1, either individually or in complex with each other, leading to rapid endocytosis; this interaction is abolished in the presence of LRPAP1/RAP. Also interacts with tPA/PLAT alone or in complex with SERPINE1. Interacts with the urokinase receptor PLAUR; this interaction leads to PLAUR internalization and is impaired in the presence of SORL1. Interacts with LRPAP1; this interaction is followed by rapid internalization. Interacts with PDGFB.
Similarity	Belongs to the LDLR family.
Subcellular Location	Cell membrane>Single-pass type I membrane protein. Membrane>Coated pit. Cell membrane>Peripheral membrane protein>Extracellular side. Membrane>Coated pit. Cytoplasm. Nucleus. Note: After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus.Postsynaptic Golgi apparatus. Cytoplasm>Cytoskeleton>Microtubule organizing center. Note: Localizes to the postsynaptic Golgi apparatus region, also named Golgi outpost, which shapes dendrite morphology by functioning as sites of acentrosomal microtubule nucleation.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



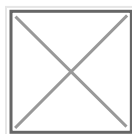
IHC (Immunohistochemistry)

At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 antibody.



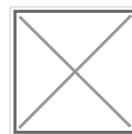
IHC (Immunohistochemistry)

At 1/200 staining Mouse intestinal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 antibody.



IHC (Immunohistochemistry)

Staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 antibody.



WB (Western Blot)

Western blot analysis of LRP1 (Phospho-Ser4520) using LOVO whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-LRP1/CD91 antibody	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. Acts as an alpha-2-macroglobulin receptor. (Microbial infection) Functions as a receptor for Pseudomonas aeruginosa exotoxin A.
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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 ; Q8IVG8
Molecular Weight	504,606 Da
NCBI Official Full Name	prolow-density lipoprotein receptor-related protein 1
NCBI Official Synonym Full Names	low density lipoprotein receptor-related protein 1
NCBI Official Symbol	LRP1
NCBI Official Synonym Symbols	APR; LRP; A2MR; CD91; APOER; LRP1A; TGFB5; IGFBP3R
NCBI Protein Information	prolow-density lipoprotein receptor-related protein 1; LRP-1; type V tgf-beta receptor; apolipoprotein E receptor; alpha-2-macroglobulin receptor; TbetaR-V/LRP-1/IGFBP-3 receptor
UniProt Protein Name	Prolow-density lipoprotein receptor-related protein 1
UniProt Gene Name	LRP1
UniProt Synonym Gene Names	A2MR; APR; LRP-1; A2MR; APOER; LRP-85; LRP-515; LRPICD
UniProt Entry Name	LRP1_HUMAN

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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lrp1-cd91-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329759>