

Rabbit Anti-LRP1/Cy5 Conjugated antibody

SL2677R-Cy5

Product Name	Anti-LRP1/Cy5
Chinese Name	Cy5 标记的低密度 Lipoprotein 受体相关蛋白 1 抗体
Alias	A2MR; Alpha 2 macroglobulin receptor; alpha 2MR; APOER; Apolipoprotein E receptor; APR; CD 91; CD91; CD91 antigen; Low density lipoprotein receptor related protein 1; Low density lipoprotein related protein 1; LRP 1; LRP 515; LRP 85; LRP; LRP ICD; LRP1; LRP1 protein; LRP515.
Research Area	Tumour Cardiovascular Cell biology immunology Neurobiology Signal transduction transcriptional regulatory factor Synthesis and Degradation Alzheimer's
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Rabbit,Sheep) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	500kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human CD91
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: Low density lipoprotein receptor-related protein (also known as low density LRP, LRP1, alpha-2-macroglobulin receptor or Apolipoprotein E receptor) is an endocytotic receptor that is involved both in endocytosis and in

phagocytosis of apoptotic cells. It is required for early embryonic development, is involved in cellular lipid homeostasis, and may play a role in APP metabolism, kinase-dependent intracellular signalling, neuronal calcium signalling and neurotransmission. Low density LRP also plays a role in the plasma clearance of chylomicron remnants and activated LRPAP1 (alpha-2-macroglobulin), and is involved in the local metabolism of complexes of plasminogen activators and their endogenous ligands. Low density LRP is postulated to be one of the major players in host resistance to HIV. The precursor low density LRP molecule is cleaved post-translationally to form a 85 kDa membrane-spanning subunit (LRP-85) and a 515 kDa large extracellular domain (LRP-515), which remains non-covalently associated with LRP-85. Following cleavage, the intracellular domain (LRPICD) is present in both the cytoplasm and the nucleus.

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. Functions as a receptor for Pseudomonas aeruginosa exotoxin A.

Subcellular Location:

Cell membrane. Membrane, coated pit and Cytoplasm. Nucleus. After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus.

Tissue Specificity:

Most abundant in liver, brain and lung.

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.
Contains 22 EGF-like domains.
Contains 31 LDL-receptor class A domains.
Contains 34 LDL-receptor class B repeats.

Database links:

[Entrez Gene: 4035](#) Human

[Entrez Gene: 16971](#) Mouse

[Entrez Gene: 100009547](#) Rabbit

[Entrez Gene: 299858](#) Rat

[Omid: 107770](#) Human

[SwissProt: Q07954](#) Human

[SwissProt: Q91ZX7](#) Mouse

[Unigene: 162757](#) Human

[Unigene: 271854](#) Mouse

[Unigene: 22436](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.