



Rabbit Anti-LRP1 antibody

SL2677R

Product Name:	LRP1
Chinese Name:	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 protein; LRP515.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg /testIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	85/515kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CD91:4451-4545/4545<Cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

SWISS:

Q07954

Gene ID:
4035

Database links:

[Entrez Gene: 4035](#)Human

[Entrez Gene: 16971](#)Mouse

[Entrez Gene: 100009547](#)Rabbit

[Entrez Gene: 299858](#)Rat

[Omim: 107770](#)Human

[SwissProt: Q07954](#)Human

[SwissProt: Q91ZX7](#)Mouse

[Unigene: 162757](#)Human

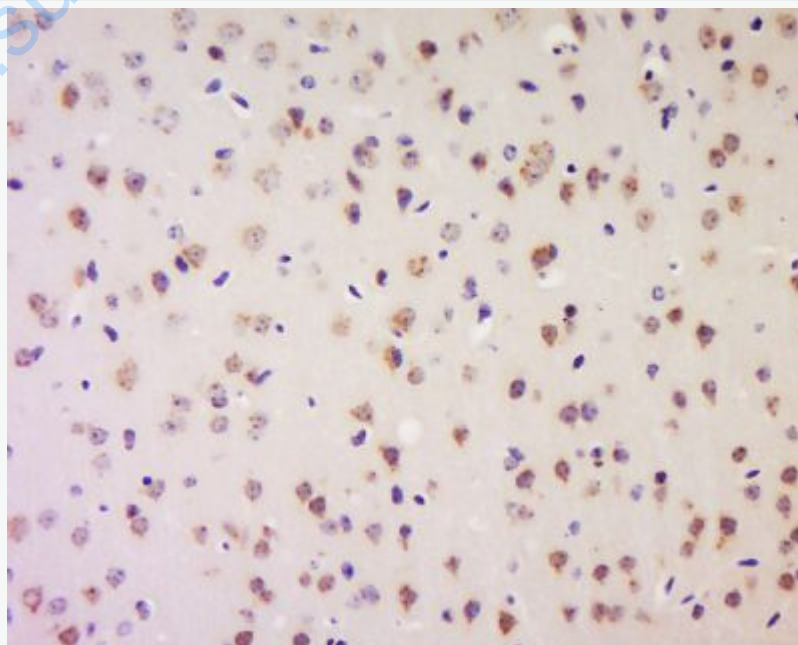
[Unigene: 271854](#)Mouse

[Unigene: 22436](#)Rat

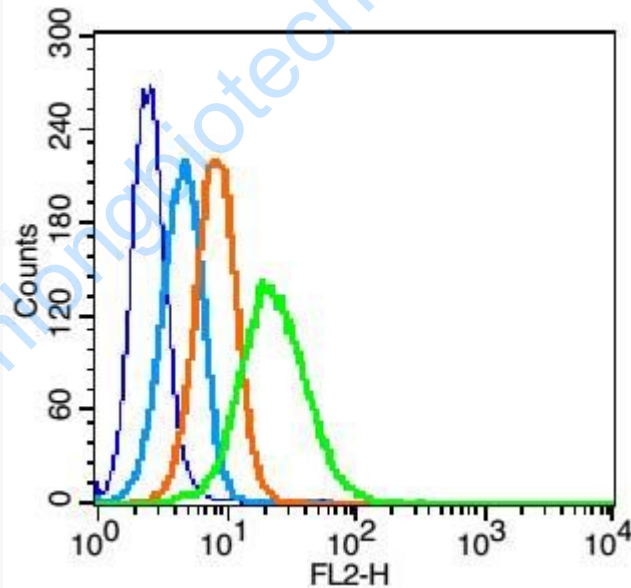
Important Note:

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

Picture:



Tissue/cell: Mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-LRP1 Polyclonal Antibody, Unconjugated(SL2677R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control(blue):U937 (fixed with 2% paraformaldehyde (10 min)).

Primary Antibody:Rabbit Anti-LRP1 antibody(SL2677R), Dilution: 1 μ g in 100 μ L
1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X

	PBS containing 0.5% BSA.
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