



Rabbit Anti-phospho-LRP1 (Ser4523) antibody

SL5409R

Product Name:	phospho-LRP1 (Ser4523)
Chinese Name:	磷酸化低密度Lipoprotein受体相关蛋白1抗体
Alias:	LRP1 (phospho Ser4523); LRP1 (phospho S4523); 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	85kDa/515kDa
Cellular localization:	The nucleuscytoplasmicThe cell membraneExtracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human LRP1 around the phosphorylation site of Ser4523:LA(p-S)TD<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.

Subunit:

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. Interacts with bacterial exotoxins.

Subcellular Location:

Low-density lipoprotein receptor-related protein 1 85 kDa subunit: Cell membrane; Single-pass type I membrane protein. Membrane, coated pit. Low-density lipoprotein receptor-related protein 1 515 kDa subunit: Cell membrane; Peripheral membrane protein; Extracellular side. Membrane, coated pit. Low-density lipoprotein receptor-related protein 1 intracellular domain: Cytoplasm. Nucleus. Note=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.

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

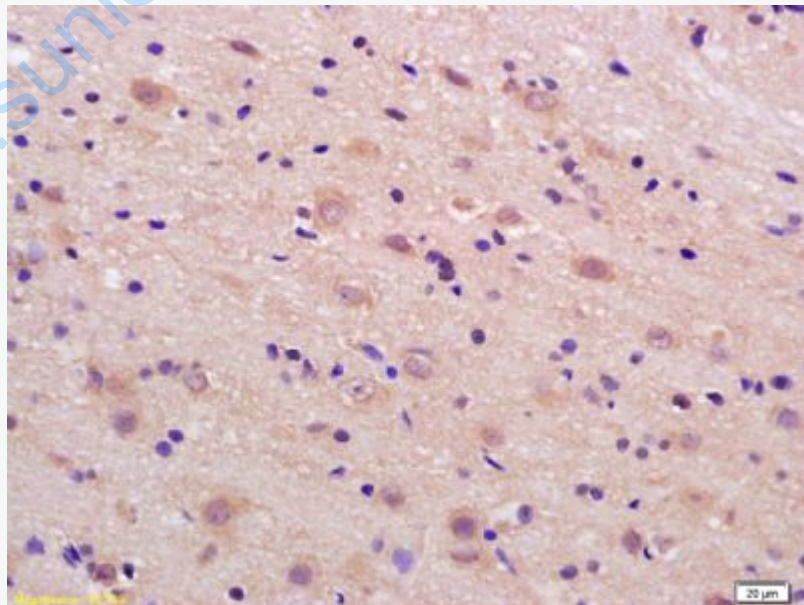
Database links:

[Entrez Gene: 4035](#)Human
[Entrez Gene: 16971](#)Mouse
[Entrez Gene: 100009547](#)Rabbit
[Entrez Gene: 299858](#)Rat
[Omin: 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: rat 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-phospho-LRP1(Ser4523) Polyclonal Antibody, Unconjugated(SL5409R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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