

LRP1 Polyclonal Antibody

Catalog No :	YT2589
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	LRP1
Fields :	>>Cholesterol metabolism;>>Alzheimer disease;>>Malaria
Gene Name :	LRP1
Protein Name :	Prolow-density lipoprotein receptor-related protein 1
Human Gene Id :	4035
Human Swiss Prot No :	Q07954
Mouse Gene Id :	16971
Mouse Swiss Prot No :	Q91ZX7
Immunogen :	The antiserum was produced against synthesized peptide derived from human CD91. AA range:4486-4535
Specificity :	LRP1 Polyclonal Antibody detects endogenous levels of LRP1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 80kD

Cell Pathway : Alzheimer's disease;

Background : This gene encodes a member of the low-density lipoprotein receptor family of proteins. The encoded preproprotein is proteolytically processed by furin to generate 515 kDa and 85 kDa subunits that form the mature receptor (PMID: 8546712). This receptor is involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. In addition, the encoded protein is necessary for the alpha 2-macroglobulin-mediated clearance of secreted amyloid precursor protein and beta-amyloid, the main component of amyloid plaques found in Alzheimer patients. Expression of this gene decreases with age and has been found to be lower than controls in brain tissue from Alzheimer's disease patients. [provided by RefSeq, Oct 2015],

Function : 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.,PTM: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.,PTM:Phosphorylated on serine and threonine residues.,PTM:Phosphorylated on tyrosine residues upon stimulation w

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 . After cleavage, the intracellular domain (LRPICD) is detected both in the cytoplasm and in the nucleus. .; Golgi outpost . Cytoplasm, cytoskeleton, microtubule organizing center . Localizes to the postsynaptic Golgi apparatus region, also named Golgi outpost, which shapes dendrite morphology by functioning as sites of acentrosomal microtubule nucleation. .

Expression : Most abundant in liver, brain and lung.

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