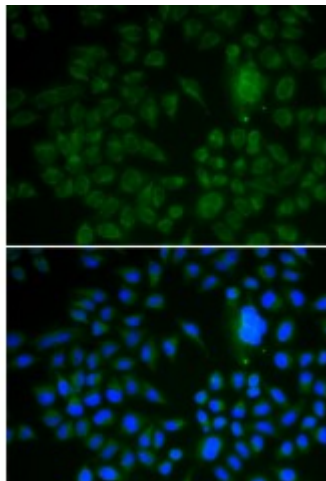


Anti-LRP1 Antibody



Description

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.

Model	STJ115470
Host	Rabbit
Reactivity	Human
Applications	IF
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 20-270 of human LRP1 (NP_002323.2).
Gene ID	4035
Gene Symbol	LRP1
Dilution range	IF 1:50 - 1:200
Tissue Specificity	Most abundant in liver, brain and lung
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Prolow-density lipoprotein receptor-related protein 1 LRP-1 Alpha-2-macroglobulin receptor A2MR Apolipoprotein E receptor APOER CD antigen CD91
Molecular Weight	504.606 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:6692OMIM:107770Reactome:R-HSA-2168880
Alternative Names	Prolow-density lipoprotein receptor-related protein 1 LRP-1 Alpha-2-macroglobulin receptor A2MR Apolipoprotein E receptor APOER CD antigen CD91
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,
Cellular Localization	Low-density lipoprotein receptor-related protein 1 85 kDa subunit: Cell membrane
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,