
Product Name: KD-Validated LDL receptor related protein 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01683**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:4,000-1:20,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 504.6kDa

Antigen Information

Gene Name	LRP1 LRP1; LDL Receptor Related Protein 1; APOER; Alpha-2-Macroglobulin Receptor; IGFBP3R1; IGFBP-3R; LRP1A; CD91; A2MR; LRP; APR; Prolow-Density Lipoprotein Receptor-Related
Alternative Names	Protein 1; Low Density Lipoprotein Receptor-Related Protein 1; Apolipoprotein E Receptor; Transforming Growth Factor- β Receptor Type V; TbetaR-V/LRP-1/IGFBP-3 Receptor; Type V Tgf-Beta Receptor; CD91 Antigen; EC 3.4.21.9; EC 1.1.1.94; IGFBP3R; TGFBR5; LRP-1; KPA
Gene ID	4035.0
SwissProt ID	Q07954
Immunogen	A synthesized peptide derived from human LRP1

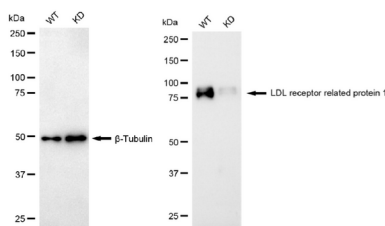
Background

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]

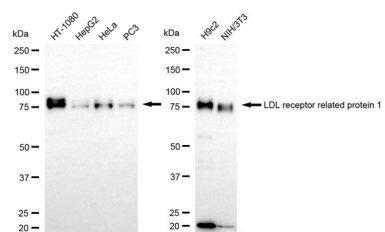
Research Area

Neuroscience, Cardiovascular, Cell Biology, Signal Transduction, Metabolism, Cancer

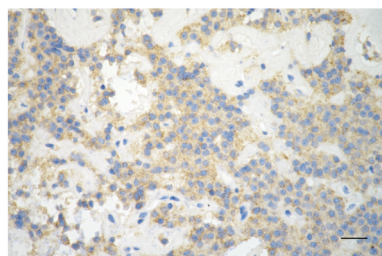
Image Data



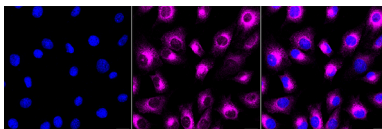
Western blotting analysis using LDL receptor related protein 1 antibody (KVA01683). LDL receptor related protein 1 expression in wild-type (WT) and LDL receptor related protein 1 (LRP1) knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with LDL receptor related protein 1 antibody (KVA01683, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



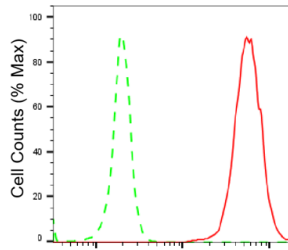
Western blotting analysis using LDL receptor related protein 1 antibody (KVA01683). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with LDL receptor related protein 1 antibody (KVA01683, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human pituitary adenoma using LDL receptor related protein 1 antibody (KVA01683, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of C2C12 cells with LDL receptor related protein 1 antibody (KVA01683, 1:1,000). Nuclei were stained blue with DAPI; LDL receptor related protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



LDL receptor related protein 1-Alexa Fluor® 647

Flow cytometric analysis of LDL receptor related protein 1 expression in C2C12 cells using LDL receptor related protein 1 antibody (KVA01683, 1:2,000). Green, isotype control; red, LDL receptor related protein 1.