

Product Name: KD-Validated LDL Receptor Related Protein 8 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01511

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 105.6kDa

Antigen Information

Gene Name	LRP8 LRP8; LDL Receptor Related Protein 8; APOER2; LRP-8; HSZ75190; MCI1; Low Density
Alternative Names	Lipoprotein Receptor-Related Protein 8, Apolipoprotein E Receptor; Low-Density Lipoprotein Receptor-Related Protein 8; Apolipoprotein E Receptor 2; ApoE Receptor 2
Gene ID	7804.0
SwissProt ID	Q14114
Immunogen	A synthesized peptide derived from human ApoER2

Background

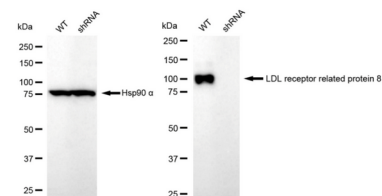
This gene encodes a member of the low density lipoprotein receptor (LDLR) family. Low density lipoprotein receptors are cell

surface proteins that play roles in both signal transduction and receptor-mediated endocytosis of specific ligands for lysosomal degradation. The encoded protein plays a critical role in the migration of neurons during development by mediating Reelin signaling, and also functions as a receptor for the cholesterol transport protein apolipoprotein E. Expression of this gene may be a marker for major depressive disorder. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jun 2011]

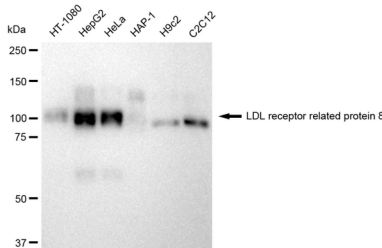
Research Area

Neuroscience,Signal Transduction,Cardiovascular,Metabolism

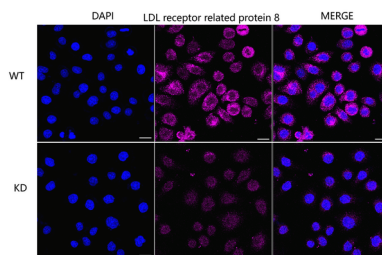
Image Data



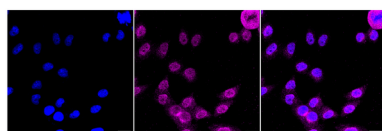
Western blotting analysis using LDL receptor related protein 8 antibody (KVA01511). LDL receptor related protein 8 expression in wild type (WT) and LDL receptor related protein 8 (LRP8) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with LDL receptor related protein 8 antibody (KVA01511, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



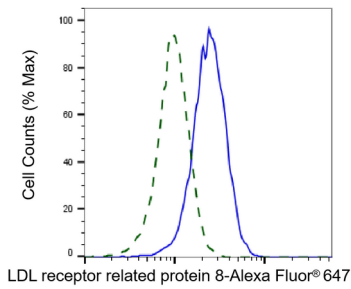
Western blotting analysis using LDL receptor related protein 8 antibody (KVA01511). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with LDL receptor related protein 8 antibody (KVA01511, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



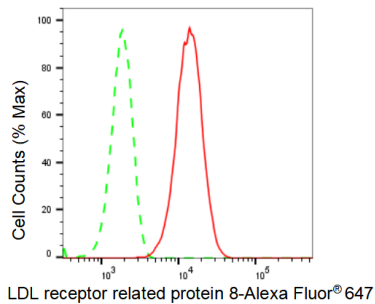
Immunocytochemical staining of HeLa cells using LDL receptor related protein 8 antibody (KVA01511, 1:1,000), Top panel: wild-type (WT); Bottom panel: LDL receptor related protein 8 shRNA knockdown (KD). Nuclei were stained blue with DAPI; LDL receptor related protein 8 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with LDL receptor related protein 8 antibody (KVA01511, 1:1,000). Nuclei were stained blue with DAPI; LDL receptor related protein 8 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.



Validation of LDL receptor related protein 8 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with LDL receptor related protein 8 antibody (KVA01511, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of LDL receptor related protein 8 expression in HepG2 cells using LDL receptor related protein 8 antibody (KVA01511, 1:2,000). Green, isotype control; red, LDL receptor related protein 8.