Datasheet for ABIN2181921

VLDLR Protein (AA 28-769) (His tag)

2 Images

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Overview

Quantity:	100 µg
Target:	VLDLR
Protein Characteristics:	AA 28-769
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This VLDLR protein is labelled with His tag.

Product Details

Sequence:	AA 28-769
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 83 kDa. The protein migrates as 110-120 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	VLDLR

Target Details

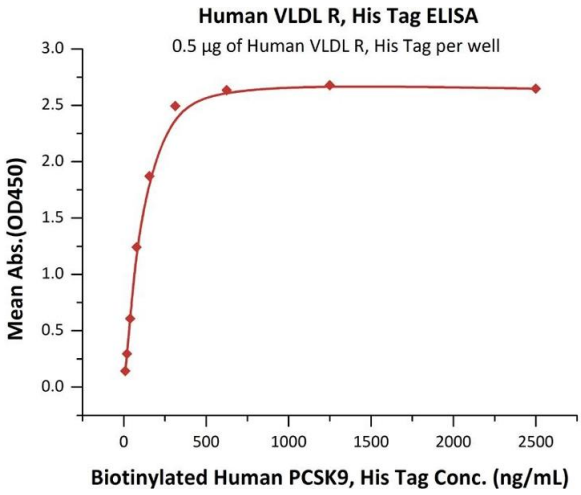
Alternative Name:	VLDL R (VLDLR Products)
Background:	The very-low-density-lipoprotein receptor (VLDL-R) is a lipoprotein receptor that shows considerable similarity to the lowdensity-lipoprotein receptor. VLDL R is a 130 kDa type I transmembrane protein in the LDL receptor family that plays a significant role in lipid metabolism and in nervous system development and function .This receptor has been suggested to be important for the metabolism of apoprotein-E-containing triacylglycerol-rich lipoproteins, such as very-low-densitylipoprotein (VLDL), beta-migrating VLDL and intermediate-density lipoprotein. It is also one of the receptors of reelin, an extracellular matrix protein which regulates the processes of neuronal migration and synaptic plasticity. In humans, the VLDL-R is encoded by the VLDLR gene. A rare neurological disorder first described in the 1970s under the name "disequilibrium syndrome" is now considered to be caused by the disruption of VLDLR gene. The disorder was renamed VLDLR-associated cerebellar hypoplasia (VLDLRCH) after a 2005 study. It is associated with parental consanguinity and found in secluded communities such as the Hutterites. VLDLRCH is one of the two known genetic disorders caused by a disruption of reelin signaling pathway, along with Norman-Roberts syndrome.
Molecular Weight:	84.0 kDa
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Restrictions:	For Research Use only

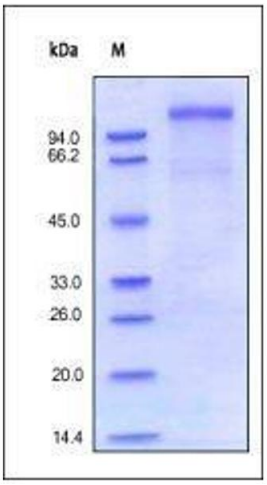
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).



ELISA

Image 1. Immobilized Human VLDL R, His Tag (ABIN2181922,ABIN2181921) at 5 μg/mL (100 μL/well) can bind Biotinylated Human PCSK9, His Tag (ABIN2444172,ABIN2444171) with a linear range of 10-156 ng/mL (QC tested).



SDS-PAGE

Image 2. Human VLDL R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 97%.