

VLDL Receptor/VLDLR Active Protein | VLDLR active protein

VLDL Receptor/VLDLR Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257962

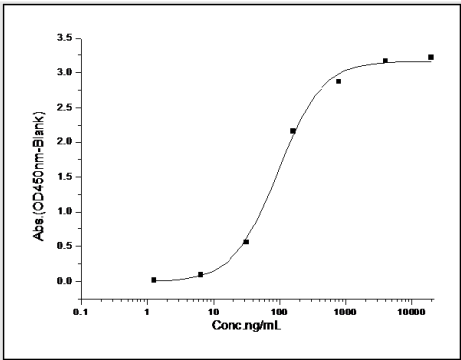
HOST
HEK293 Cells

PRODUCT SYNONYMS

VLDL Receptor/VLDLR; VLDL Receptor/VLDLR Protein; Human; Recombinant (His Tag); Human VLDLR/VLDL Receptor Protein (His Tag); CAMRQ1 Protein; CARMQ1 Protein; CHRMQ1 Protein; VLDLRCH Protein; very low density lipoprotein receptor; VLDLR active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>80% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser79 7
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gly 28
Tag	C-His
Protein Construction	A DNA sequence encoding the human VLDLR isoform alpha (NP_003374.3) extracellular domain (Met 1-Ser 797) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1.Measured by its binding ability in a functional ELISA.2.Immobilized human VLDLR-His at 10ug/mL (100uL/well) can bind biotinylated human LRPAP1-His. The EC50 of biotinylated human LRPAP1-His is 0.05-0.2ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data

Measured by its binding ability in a functional ELISA. Immobilized human VLDLR-His at 10ug/mL (100uL/well) can bind biotinylated human LRPAP1-His, the EC50 of biotinylated human LRPAP1-His is 0.05-0.2 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for VLDLR active protein

Background: The very low density lipoprotein receptor, known as VLDLR, is a single-pass type 1 integral membrane protein and a member of the LDL receptor family. This receptor family includes LDL receptor, LRP, megalin, VLDLR and ApoER2, and is characterized by a cluster of cysteine-rich class A repeats, epidermal growth factor (EGF)-like repeats, YWTD repeats and an O-linked sugar sdomain. VLDLR contains 3 EGF-like domains, 8 LDL-receptor class A domains, as well as 6 LDL-receptor class B repeats, and is abundant in heart, skeletal muscle, also ovary and kidney, but not in liver. VLDLR binds VLDL and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. VLDLR mediates the phosphorylation of mDab1 (mammalian disabled protein) via binding to Reelin, and induces the modulation of Tau phosphorylation. This pathway regulates the migration of neurons along with the radial glial fiber network during brain development. Defects of VLDLR may be the cause of VLDLR-associated cerebellar hypoplasia (VLDLRCH), a syndrome characterized by moderate-to-profound mental retardation, delayed ambulation, and predominantly truncal ataxia.

References

Trommsdorff, M. et al., 1999. Cell. 97: 689-701. Mikhailenko, I. et al., 1999. J. Cell Sci. 112: 3269-3281. Sato, A. et al., 1999. Biochem. J. 341: 377-383. Hiesberger, T. et al., 1999. Neuron 24: 481-489. Tiebel, O. et al., 1999. Atherosclerosis 145: 239-251. Boycott, K.M. et al., 2005, Am. J. Hum. Genet. 77 (3): 477-483. Moheb, L.A. et al., 2008, Eur. J. Hum. Genet. 16 (2): 270-273.

NCBI AND UNIPROT INFORMATION

NCBI GI #	65301167
NCBI GeneID	7436
NCBI Accession #	NP_003374.3
NCBI GenBank Nucleotide #	NM_003383.3
UniProt Accession #	P98155; Q5VVF6; B2RMZ7; D3DRH6
Molecular Weight	96,098 Da
NCBI Official Full Name	very low-density lipoprotein receptor isoform a
NCBI Official Synonym Full Names	very low density lipoprotein receptor
NCBI Official Symbol	VLDLR
NCBI Official Synonym Symbols	CARMQ1; CHRMQ1; VLDLRCH
NCBI Protein Information	very low-density lipoprotein receptor; VLDL-R; VLDL receptor
UniProt Protein Name	Very low-density lipoprotein receptor

UniProt Gene Name	VLDLR
UniProt Synonym Gene Names	VLDL receptor; VLDL-R
UniProt Entry Name	VLDLR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/vldl-receptor-vldlr/257962>