Recombinant Human Low-density lipoprotein receptor/LDLR Protein

Catalog No.: RP00152

www.abclonal.com

Sequence Information

Species
Human

Gene ID
3949

Swiss Prot
P01130

Tags
C-His

Synonyms
LDLR, FH, FHC, LDLCQ2, low-density lipoprotein receptor,FH, FHC,LDLCQ2

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
85.62 kDa

Observed MW
120 , 140 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The low density lipoprotein receptor (LDLR) family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. Low density lipoprotein (LDL) is normally bound at the cell membrane and taken into the cell ending up in lysosomes where the protein is degraded and the cholesterol is made available for repression of microsomal enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase, the rate-limiting step in cholesterol synthesis. At the same time, a reciprocal stimulation of cholesterol ester synthesis takes place. Mutations in LDLR gene lead to the autosomal dominant disorder, familial hypercholesterolemia.

Basic Information

Description
Recombinant Human Low-density lipoprotein receptor/LDLR Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala22-Arg788) of human LDLR/LDL Receptor (Accession #NP_000518.1) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human LDLR at 5μg/mL (100 μL/well) can bind Human PCSK9 with a linear range of 0.5-294.7ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

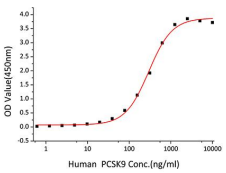
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

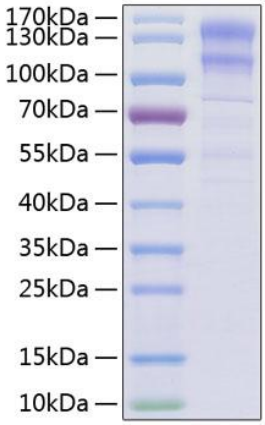
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Immobilized Human LDLR at 5μg/mL (100 μL/well) can bind Human PCSK9 with a linear range of 0.5-294.7ng/mL.



Recombinant Human Low-density lipoprotein receptor/LDLR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.