

Recombinant human LDL Receptor protein (Active) ab220570

1 References 3 Images

Description	
Product name	Recombinant human LDL Receptor protein (Active)
Biological activity	Immobilized Human PCSK9, His Tag at 5µg/mL (100 µL/well) can bind ab220570 with a linear range of 8-320 ng/mL.
Purity	> 90 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µl
Expression system	HEK 293 cells
Accession	<u>P01130</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	ERNEFQCQDGKCSISKWVCDGSAECQDGSDSQETCLS VTCKSGDFSCGG RVNRCIPQFWRCQGQVDCDNGSDEQGCPPKTCSQDEF RCHDGKCSIRQFV CDSDRDCLDGSDEASCPVLTGCPASFQCNSSTCIPQLW ACDNDPDCEDGS DEWPQRCRGLYVFQGDSSPCSAFEFHCLSGECIHSSWR CDGGPDCKDKSD EENCAVATCRPDEFQCSDGNCIHGSRQCDREYDCKDMS DEVGCVNVTLC GPNKFKCHSGECITLDKVCNMARDCRDWSDEPIKECGTN ECLDNNGGCSH VCNDLKIGYECLCPDGFQLVAQRRCEDIDECQDPDTCSQ LCVNLEGGYKC QCEEGFQLDPHTKACKAVGSIAYLFFTNRHEVRKMTLDRS EYTSLIPNLR NVVALDTEVASNRIYWSDLSSQRMICSTQLDRAHGVSSYDT VISRDIQAPD GLAVDWIHSNIYWTDSVLGTVSVADTKGVKRKTLFRENGS KPRAIVDPV

HGFMWTDWGTPAKIKKGGLNGVDIYSLVTENIQWPNGITL
 DLLSGRLYW
 VDSKLHSSIDVNGGNRKILEDEKRLAHPFSLAVFEDKV
 FWTDINEA
 IFSANRLTGSDVNLLAENLLSPEDMVLFHNLTPRGVNWC
 ERTTSLNGGC
 QYLCLPAPQINPHSPKFTCACPDGMLLARDMRSLTEAE
 AAVATQETSTV
 RLKVSSTAVRTQHTTTRPVPDTSRLPGATPGLTTVEVTMS
 HQALGDVAG R

Predicted molecular weight	111 kDa
Amino acids	22 to 788
Additional sequence information	extracellular domain with Fc fragment of human IgG1 at the C-terminus. Accession # NP_000518.

Specifications

Our **Abpromise guarantee** covers the use of **ab220570** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Lyophilized

Preparation and Storage

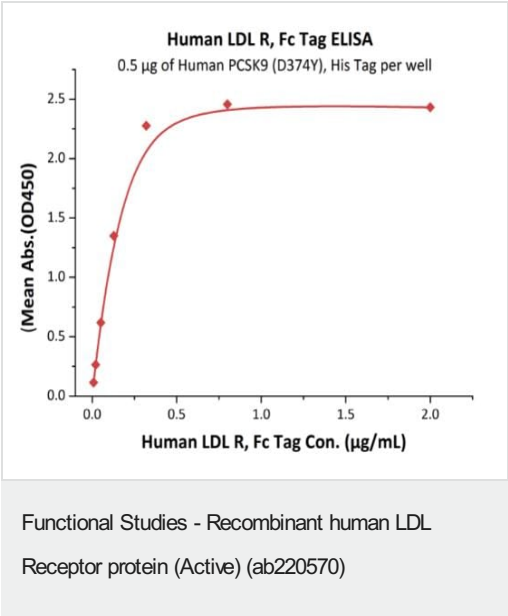
Stability and Storage	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituents: 0.61% Tris, 0.75% Glycine, 5% Trehalose, 0.44% L-Arginine, 0.87% Sodium chloride Lyophilized from 0.22 µm filtered solution. 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5% This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute with sterile deionized water to a concentration of 100 µg/ml.

General Info

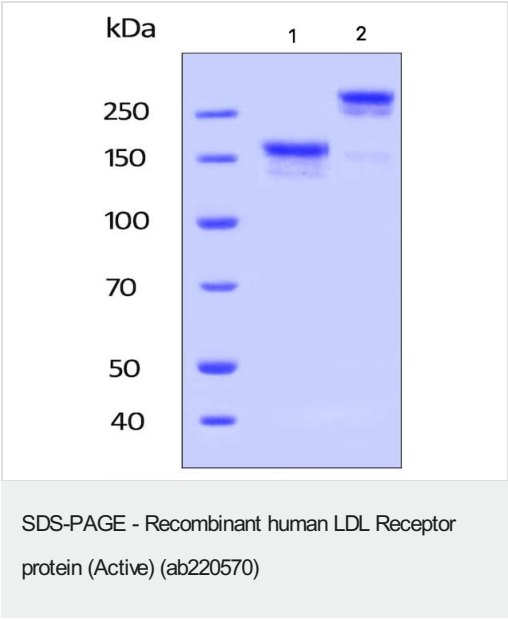
Function	Binds LDL, the major cholesterol-carrying lipoprotein of plasma, and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits. In case of HIV-1 infection, functions as a receptor for extracellular Tat in neurons, mediating its internalization in uninfected cells.
Involvement in disease	Defects in LDLR are the cause of familial hypercholesterolemia (FH) [MIM:143890]; a common autosomal semi-dominant disease that affects about 1 in 500 individuals. The receptor defect impairs the catabolism of LDL, and the resultant elevation in plasma LDL-cholesterol promotes deposition of cholesterol in the skin (xanthelasma), tendons (xanthomas), and coronary arteries (atherosclerosis).

Sequence similarities	<p>Belongs to the LDLR family.</p> <p>Contains 3 EGF-like domains.</p> <p>Contains 7 LDL-receptor class A domains.</p> <p>Contains 6 LDL-receptor class B repeats.</p>
Post-translational modifications	<p>N- and O-glycosylated.</p> <p>Ubiquitinated by MYLIP leading to degradation.</p>
Cellular localization	<p>Cell membrane. Endomembrane system. Membrane > clathrin-coated pit. Found distributed from the plasma membrane to intracellular compartments.</p>

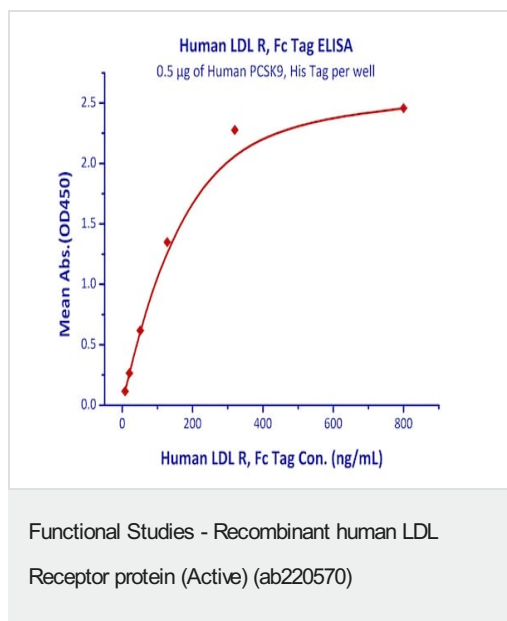
Images



Immobilized Human PCSK9 (D374Y) (His Tag) at 5µg/mL (100 µL/well) can bind Human LDL R (Fc Tag) with a linear range of 8-320 ng/mL (QC tested).



ab220570 on SDS-PAGE under reducing (lane 1) and no-reducing (lane 2) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%. As a result of glycosylation, the reduced protein migrates at 155-175 kDa and the non-reduced protein migrates at 310-350 kDa.



Example of ab220570 bioactivity.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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