

LDLR/LDL Receptor Active Protein | LDLR active protein

LDLR/LDL Receptor Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258153

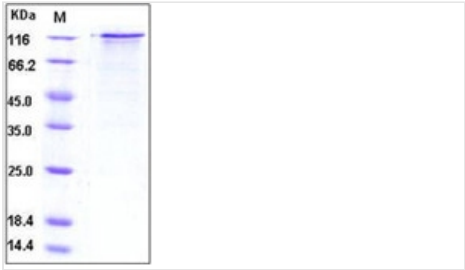
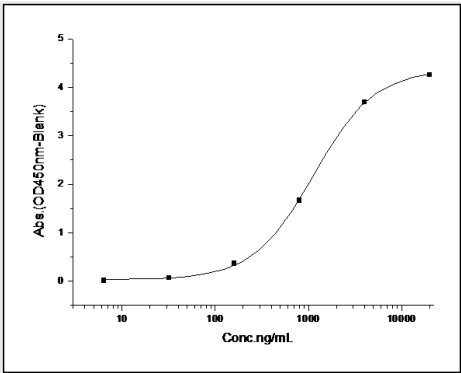
HOST
HEK293 Cells

PRODUCT SYNONYMS

LDLR/LDL Receptor; LDLR/LDL Receptor Protein; Mouse; Recombinant (His Tag); Mouse LDLR/LDL Receptor Protein (His Tag); Hlb301 Protein; low density lipoprotein receptor; LDLR active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% 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-Arg79 0
Species	Mouse
Activity	Measured by its binding ability in a functional ELISA. Immobilized Rat PCSK9 at 10ug/ml (100uL/well) can bind biotinylated recombinant mouse LDLR. The EC50 of biotinylated mouse LDLR is 0.173ug/ml.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ala 22
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain of mouse LDLR (NP_034830.2) precursor (Met 1-Arg 790) with substitution of Val 23 and Gly 27 by Ala 23 and Cys 27 respectively was expressed with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
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 Rat PCSK9 at 10 ug/ml (100 ul/well) can bind biotinylated recombinant mouse LDLR. The EC50 of biotinylated mouse LDLR is 0.173 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for LDLR active protein

Background: LDL Receptor, also known as LDLR, is a mosaic protein that belongs to the Low-density lipoprotein receptor gene family. The low-density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. LDL Receptor consists of 840 amino acids (after removal of signal peptide) and mediates the endocytosis of cholesterol-rich LDL. 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. LDL Receptor is a cell-surface receptor that recognizes the apoprotein B100 which is embedded in the phospholipid outer layer of LDL particles. The receptor also recognizes the apoE protein found in chylomicron remnants and VLDL remnants.

References

Yamamoto T, et al. (1984) The human LDL receptor: a cysteine-rich protein with multiple Alu sequences in its mRNA. Cell. 39(1): 27-38. Mao B, et al. (2001) LDL-receptor-related protein 6 is a receptor for Dickkopf proteins. Nature. 411(6835): 321-5. Pinson KI, et al. (2000) An LDL-receptor-related protein mediates Wnt signalling in mice. Nature. 407(6803): 535-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	113195700
NCBI GeneID	16835
NCBI Accession #	NP_034830.2
NCBI GenBank Nucleotide #	NM_010700.3
UniProt Accession #	P35951
Molecular Weight	95,135 Da
NCBI Official Full Name	low-density lipoprotein receptor isoform 1
NCBI Official Synonym Full Names	low density lipoprotein receptor
NCBI Official Symbol	Ldlr
NCBI Official Synonym Symbols	Hlb301
NCBI Protein Information	low-density lipoprotein receptor; LDL receptor
UniProt Protein Name	Low-density lipoprotein receptor
UniProt Gene Name	Ldlr

UniProt Synonym Gene Names	LDL receptor
UniProt Entry Name	LDLR_MOUSE

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/ldlr-ldl-receptor/258153>