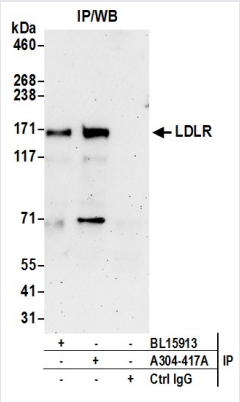
LDLR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LDLR, Polyclonal Antibody
Full Product Name	Rabbit anti-LDLR Antibody, Affinity Purified
Product Gene Name	anti-LDLR antibody
Product Synonym Names	LDLCQ2; low-density lipoprotein receptor; LDL receptor; FHC; FH; low-density lipoprotein receptor class A domain-containing protein 3; Low-density lipoprotein receptor; low density lipoprotein receptor
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	95,376 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (11200038..11244506). Location: 19p13.2
OMIM	143890
3D Structure	ModBase 3D Structure for P01130
Predicted Reactivity	Mouse, Rat, Bovine, Rabbit
Immunogen	Between 810 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-LDLR antibody	Primary Antibodies
Applications Tested/Suitable for anti-LDLR antibody	Immunoprecipitation (IP)
Application Notes for anti-LDLR antibody	IP: 6ug/mg lysate
Related Product Information for anti-LDLR antibody	Low-density lipoprotein receptor, LDLR, 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, LDLR functions as a receptor for extracellular Tat in neurons, mediating its internalization in uninfected cell [taken from NCBI Entrez Gene (Gene ID: 3949)].
Other Notes	Small volumes of anti-LDLR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LDLR purchase	MBS3904602 is an antibody targeting LDLR. Also known as Rabbit anti-LDLR Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunoprecipitation (IP) of anti-LDLR antibody
Detection of human LDLR by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP; 20% of IP loaded) prepared using NETN buffer from HeLa cells. Antibodies: Affinity purified rabbit anti-LDLR antibody MBS3904602 (lot MBS3904602-1) used for IP at 6 ug per reaction. LDLR was also immunoprecipitated by rabbit anti-LDLR antibody BL15913. For blotting immunoprecipitated LDLR, MBS3904602 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LDLR. It may not necessarily be applicable to this product.

NCBI GI #	4504975
NCBI GeneID	3949
NCBI Accession #	NP_000518.1
UniProt Primary Accession #	P01130
UniProt Secondary Accession #	Q53ZD9; Q59FQ1; Q9UDH7; B4DII3; B4DJZ8; B4DR00; B4DTQ3; C0JYY8; H0YLU8; H0YNT7
UniProt Related Accession #	P01130
GenBank Nucleotide #	NM_000527.4
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	FH; FHC; LDLCQ2
UniProt Protein Name	Low-density lipoprotein receptor
Protein Family	Low-density lipoprotein receptor
UniProt Gene Name	LDLR
UniProt Synonym Gene Names	LDL receptor
UniProt Entry Name	LDLR_HUMAN
NCBI Protein Information	low-density lipoprotein receptor; LDL receptor; low-density lipoprotein receptor class A domain-containing protein 3
NCBI Summary for LDLR	The low density lipoprotein receptor (LDLR) gene 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 this gene cause the autosomal dominant disorder, familial hypercholesterolemia. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Sep 2010]

UniProt Comments for LDLR	LDLR: 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. Defects in LDLR are the cause of familial hypercholesterolemia (FH); 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). Belongs to the LDLR family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface; Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: Golgi apparatus; cell surface; membrane; integral to plasma membrane; lysosome; late endosome; early endosome; plasma membrane; endosome membrane; coated pit; receptor complex; external side of plasma membrane Molecular Function: low-density lipoprotein receptor activity; very-low-density lipoprotein receptor activity; protein binding; low-density lipoprotein binding; clathrin heavy chain binding; calcium ion binding; glycoprotein binding Biological Process: lipoprotein catabolic process; cholesterol metabolic process; phototransduction, visible light; receptor-mediated endocytosis; cholesterol transport; viral reproduction; cholesterol absorption; endocytosis; lipoprotein metabolic process; cholesterol homeostasis; phospholipid transport; lipid metabolic process; retinoid metabolic process Disease: Hypercholesterolemia, Familial
Research Articles on LDLR	**1.** The LDL receptor (LDLR) serves as the major entry port of vesicular stomatitis virus and of VSV-G oat protein pseudotyped lentiviral vectors in human and mouse cells.
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