

Rabbit anti-Human LDLR Polyclonal Antibody | anti-LDLR antibody

Anti-LDLR Antibody Picoband

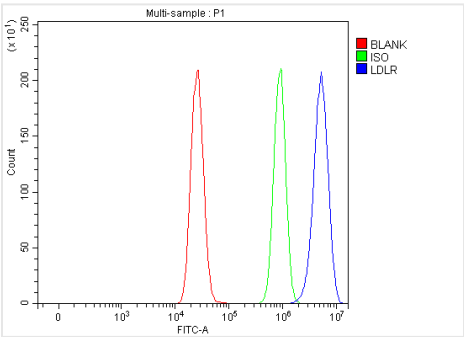
CATALOG # AAA126965	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

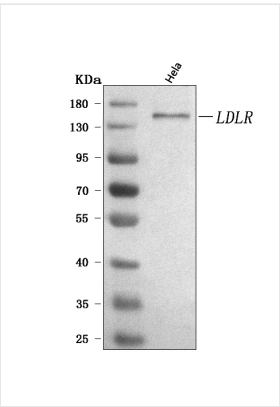
LDLR; Polyclonal Antibody; Anti-LDLR Antibody Picoband; low density lipoprotein receptor; Low-density lipoprotein receptor; LDL receptor; anti-LDLR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed, including in adult and fetal brain, placenta, skin fibroblasts, adipose tissue and gonads.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-LDLR antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human LDLR recombinant protein (Position: A705-A860).
Subcellular Localization	Lysosome. Golgi apparatus. Cell membrane. Single-pass type I membrane protein. Early endosome. Late endosome. Clathrin-coated pit.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein 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. (Microbial infection) Acts as a receptor for hepatitis C virus in hepatocytes, but not through a interaction with viral proteins. (Microbial infection) Acts as a receptor for Vesicular stomatitis virus. (Microbial infection) In case of HIV-1 infection, may function as a receptor for extracellular Tat in neurons, mediating its internalization in uninfected cells.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of MCF-7 cells using anti-LDLR antibody (AAA126965). Overlay histogram showing MCF-7 cells stained with AAA126965 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LDLR Antibody (AAA126965, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of LDLR using anti-LDLR antibody (AAA126965). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LDLR antigen affinity purified polyclonal antibody (#AAA126965) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for LDLR at approximately 140-160 kDa. The expected band size for LDLR is at 95,140-160,120 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-LDLR antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-LDLR antibody	Primary Antibodies; Cancer; Cardiovascular; Cytochromes; Drug Metabolism; Growth Factors/Hormones; Lipases; Lipid and Lipoprotein Metabolism; Lipid Metabolism; Lipids/Lipoproteins; Metabolic Signaling Pathways; Metabolism; Mitochondrial Metabolism; Pathwa
References	1. Aalto-Setälä, K., Helve, E., Kovanen, P. T., Kontula, K. Finnish type of low absorbance lipoprotein receptor gene mutation (FH-Helsinki) deletes exons encoding the carboxy-terminal part of the receptor and creates an internalization-defective phenotype. J. Clin. Invest. 84: 499-505, 1989.2. Aalto-Setälä, K., Koivisto, U.-M., Miettinen, T. A., Gylling, H., Kesäniemi, Y. A., Savolainen, M., Pyörala, K., Ebeling, T., Mononen, I., Turtola, H., Viikari, J., Kontula, K. Prevalence and geographical distribution of major LDL receptor gene rearrangements in Finland. J. Intern. Med. 231: 227-234, 1992.3. Agnello, V., Abel, G., Elfahal, M., Knight, G. B., Zhang, Q.-X. Hepatitis C virus and other flaviviridae viruses enter cells via low absorbance lipoprotein receptor. Proc. Nat. Acad. Sci. 96: 12766-12771, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504975
NCBI GeneID	3949
NCBI Accession #	NP_000518.1
NCBI GenBank Nucleotide #	NM_000527.4
UniProt Accession #	P01130; Q53ZD9; Q59FQ1; Q9UDH7; B4DII3; B4DJZ8; B4DR00; B4DTQ3; C0JYY8; H0YLU8; H0YNT7
Molecular Weight	95,376 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	FH; FHC; LDLCQ2
NCBI Protein Information	low-density lipoprotein receptor; LDL receptor; low-density lipoprotein receptor class A domain-containing protein 3
UniProt Protein Name	Low-density lipoprotein receptor
UniProt Gene Name	LDLR
UniProt Synonym Gene Names	LDL receptor
UniProt Entry Name	LDLR_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/polyclonal/ldlr-antibody-flow-cytometry-western-blot-elisa/126965>