

Datasheet for 200-901-CJ1**LDL-R Antibody****Overview**

Description:	Anti-LDL-R (CHICKEN) Antibody - 200-901-CJ1
Item No.:	200-901-CJ1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Chicken

Product Details

Background:	The low density lipoprotein receptor (LDL-R) 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 the LDL-R gene cause the autosomal dominant disorder, familial hypercholesterolemia. Along with SCARB1, CLDN1, and the tetraspanin superfamily member CD81, LDL-R has been reported to be an entry factor for the Hepatitis C virus. At least three isoforms of LDL-R are known to exist.
Synonyms:	LDL-R Antibody, FH, FHC, LDLCQ2, Low-density lipoprotein receptor, LDL receptor
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	LDLR
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-LDL-R antibody was prepared from chicken egg fractions produced by repeated immunizations with an 18 amino acid synthetic peptide near the internal region of human LDL-R.
Purity/Specificity:	Anti-LDL-R Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with LDL-R from other sources has not been determined.
Relevant Links:	• UniProtKB - P01130 • GeneID - 3949 • NCBI - NP_000518

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-LDL-R Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 95 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

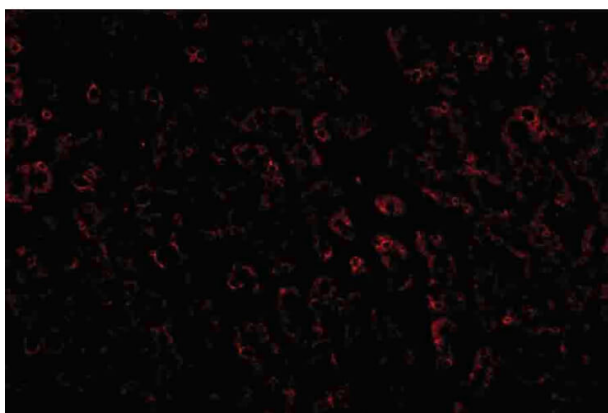
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

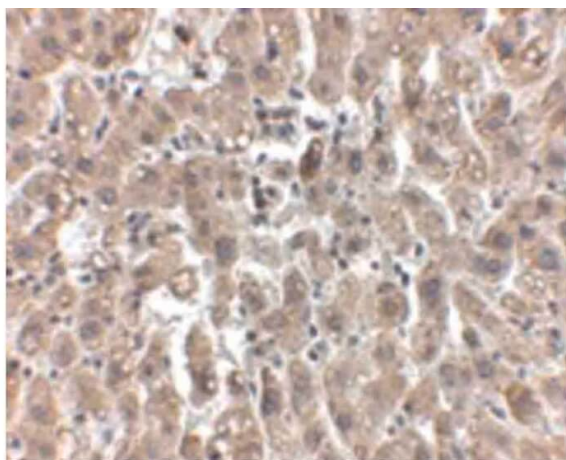
Expiration: Expiration date is one (1) year from date of receipt.

Images



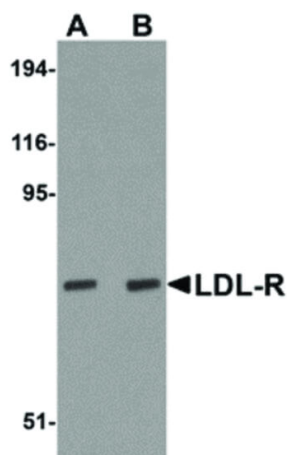
Immunofluorescence Microscopy

Immunofluorescence Microscopy of LDLR antibody. Tissue: human breast carcinoma. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: LDLR antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: LDLR is a membrane protein. Staining: LDLR as red fluorescent signal.



Immunohistochemistry

Immunohistochemistry of LDL-R antibody. Tissue: human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: LDL-R antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Localization: LDL-R is a membrane protein. Staining: LDL-R as precipitated brown signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of LDL-R antibody. Lane 1: Human liver tissue lysate with LDL-R antibody at 1 $\mu\text{g}/\text{mL}$. Lane 2: Human liver tissue lysate with LDL-R antibody at 2 $\mu\text{g}/\text{mL}$. Load: 35 μg per lane. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 95 kDa, 75 kDa for LDL-R. Other band(s): LDL-R splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.