

PRODUCT INFORMATION



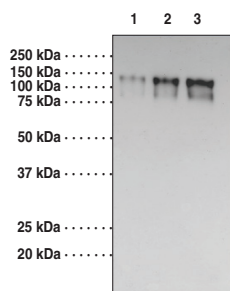
LDL Receptor Polyclonal Antibody - Biotinylated

Item No. 22727

Overview and Properties

Contents:	This vial contains 50 µg of biotinylated IgG.
Synonyms:	LDLR, Low Density Lipoprotein Receptor
Immunogen:	A synthetic peptide from the C-terminal region of murine LDLR
Species Reactivity:	(+) Human, mouse, and rat LDLR
Uniprot No.:	P35951 (murine)
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	PBS, pH 7.2, 50% glycerol, 0.1% BSA and 0.02% sodium azide
Host:	Rabbit
Applications:	Immunocytochemistry (ICC) and Western blot (WB); the recommended starting dilution is 1:250-500. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Image



Lane 1: rLDLR (50 ng)
Lane 2: rLDLR (100 ng)
Lane 3: rLDLR (150 ng)

WB detection of recombinant LDLR by
LDL Receptor Polyclonal Antibody – Biotinylated (0.5 µg/ml)

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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Description

Cholesterol is an essential element of cell membranes and is carried around the body packaged in lipoproteins, primarily low-density lipoproteins (LDLs). The LDL receptors (LDLRs) are cell surface glycoproteins that scavenge LDL from the blood and regulate plasma LDL cholesterol. LDLRs contain five primary domains: the ligand binding domain, the homology with the EGF precursor domain, the O-linked sugars domain, the membrane-spanning region, and a cytoplasmic tail.¹ In humans, more than 60% of the LDL R3 are found in the liver.² LDLR expression is under hormonal control both *in vivo* and *in vitro*. Mutations in the LDLR gene cause disorders such as familial hypercholesterolemia and atherosclerosis.¹ Murine LDLR is 864 amino acids in length with an estimated molecular weight of 95 kDa. The protein is highly glycosylated through N- and O-linkages and thus migrates at 100 to 160 kDa bands on SDS-PAGE.¹ Cayman's LDL receptor polyclonal antibody detects both glycosylated and unglycosylated proteins in tissue/cell samples such as liver, HepG2, and RAW 264.7 cells.

References

1. Goldstein, J.L., Brown, M.S., Anderson, R.G.W., *et al.* Receptor-mediated endocytosis: Concepts emerging from the LDL receptor system. *Annu. Rev. Cell Biol.* **1**, 1-39 (1985).
2. Rudling, M.J., Reihné, E., Einarsson, K., *et al.* Low density lipoprotein receptor-binding activity in human tissues: Quantitative importance of hepatic receptors and evidence for regulation of their expression *in vivo*. *Proc. Natl. Acad. Sci. USA* **87**, 3469-3473 (1990).

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