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Datasheet for ABIN904679
anti-LDL antibody (Alexa Fluor 647)

Overview

Quantity:	100 µL
Target:	LDL
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LDL antibody is conjugated to Alexa Fluor 647
Application:	Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	Full length plasma protein (Human)
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse
Purification:	Purified by Protein A.

Target Details

Target:	LDL
Alternative Name:	LDL (LDL Products)
Background:	Synonyms: β -Lipoprotein, Low density lipoprotein, apolipoprotein B100, apo-B100

Target Details

Background: LDL and HDL transport both dietary and endogenous cholesterol in the plasma. LDL is the main transporter of cholesterol and cholesteryl esters and makes up more than half of the total lipoprotein in plasma. LDL is absorbed by the liver and other tissues via receptor mediated endocytosis. The cytoplasmic domain of the LDL receptor facilitates the formation of coated pits, receptor-rich regions of the membrane. The ligand binding domain of the receptor recognizes apo-B100 on LDL, resulting in the formation of a clathrin-coated vesicle. ATP-dependent proton pumps lower the pH inside the vesicle resulting dissociation of LDL from its receptor. After loss of the clathrin coat the vesicles fuse with lysosomes, resulting in peptide and cholesteryl ester enzymatic hydrolysis. The LDL receptor can be recycled to the cell membrane. Insulin, tri-iodothyronine and dexamethasone have shown to be involved with the regulation of LDL receptor mediated uptake. The protein component of LDL is apolipoprotein B100. LDL contains 2022 % protein, 1015 % triglycerides, 2028 % phospholipids, 3748 % cholesteryl esters and 810 % cholesterol.

Application Details

Application Notes: FCM 1:20-100
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months