abcam

Product datasheet

PE Anti-LDL Receptor antibody [032] ab275705

Recombinant

2 Images

Overview

Product name	PE Anti-LDL Receptor antibody [032]
Description	PE Rabbit monoclonal [032] to LDL Receptor
Host species	Rabbit
Conjugation	PE. Ex: 488nm, Em: 575nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant fragment (His-tag) corresponding to Mouse LDL Receptor aa 1-790 (extracellular). With substitution of Val 23 and Gly 27 by Ala 23 and Cys 27 respectively. Database link: **P35951**
Positive control	Flow Cyt: RAW 264.7 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze. Store In the Dark.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	032
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab275705 in the following tested applications.

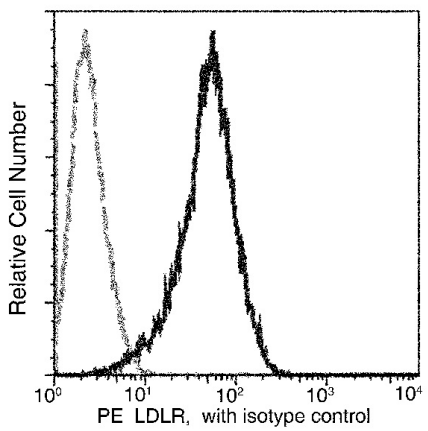
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. 5 µl/Test.

Target

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. In case of HIV-1 infection, functions as a receptor for extracellular Tat in neurons, mediating its internalization in uninfected cells.
Involvement in disease	Defects in LDLR are the cause of familial hypercholesterolemia (FH) [MIM:143890]; 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).
Sequence similarities	Belongs to the LDLR family. Contains 3 EGF-like domains. Contains 7 LDL-receptor class A domains. Contains 6 LDL-receptor class B repeats.
Post-translational modifications	N- and O-glycosylated. Ubiquitinated by MYLIP leading to degradation.
Cellular localization	Cell membrane. Endomembrane system. Membrane > clathrin-coated pit. Found distributed from the plasma membrane to intracellular compartments.

Images



Flow Cytometry - PE Anti-LDL Receptor antibody [032] (ab275705)

Profile of anti-LDLR reactivity on RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) cells analyzed by flow cytometry. Cells should be Fc-blocked by treatment with a mouse BD Fc Block purified anti-CD16/CD32 mAb 2.4G2 prior to staining, washed, then stained with ab275705 at 5 µl/Test.

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