

**LDLR Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8960C****Specification**

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**LDLR Antibody (Center) - Product Information**

Application	FC, WB,E
Primary Accession	<a href="#">P01130</a>
Other Accession	<a href="#">P35952</a> , <a href="#">P20063</a> , <a href="#">Q28832</a> , <a href="#">P35951</a> , <a href="#">P35950</a> , <a href="#">Q99088</a> , <a href="#">Q99087</a> , <a href="#">P01131</a>
Reactivity	Human, Mouse
Predicted	Xenopus, Bovine, Hamster, Pig, Rabbit, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	391-419

**LDLR Antibody (Center) - Additional Information****Gene ID** 3949**Other Names**

Low-density lipoprotein receptor, LDL receptor, LDLR

**Target/Specificity**

This LDLR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 391-419 amino acids of human LDLR.

**Dilution**

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

LDLR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**LDLR Antibody (Center) - Protein Information****Name** LDLR

**Function** Binds low density lipoprotein /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. Forms a ternary complex with PGRMC1 and TMEM97 receptors which increases LDLR-mediated LDL internalization (PubMed:[30443021](#)).

#### Cellular Location

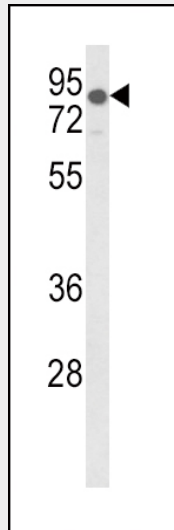
Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P01131}. Membrane, clathrin-coated pit. Golgi apparatus. Early endosome. Late endosome. Lysosome  
Note=Rapidly endocytosed upon ligand binding. Localized at cell membrane, probably in lipid rafts, in serum-starved conditions (PubMed:30443021).

#### LDLR Antibody (Center) - Protocols

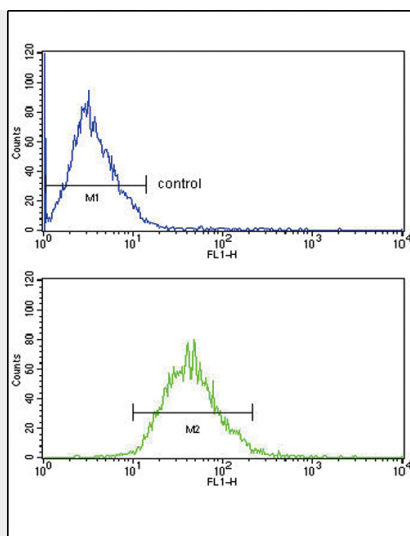
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### LDLR Antibody (Center) - Images



Western blot analysis of LDLR Antibody (Center) (Cat. #AP8960c) in mouse lung tissue lysates (35ug/lane). LDLR (arrow) was detected using the purified Pab.



LDLR Antibody (Center) (Cat.#AP8960c) FC analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **LDLR Antibody (Center) - Background**

The low density lipoprotein receptor (LDLR) 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.

### **LDLR Antibody (Center) - References**

Hobbs,H.H., et.al., Hum. Mutat. 1 (6), 445-466 (1992)  
Brown,M.S. et.al., Proc. Natl. Acad. Sci. U.S.A. 76 (7), 3330-3337 (1979)