

**LDLR Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10650****Specification**

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**LDLR Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P01130</a>
Reactivity	Human, Mouse, Rat, Hamster, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	95376

**LDLR Antibody - Additional Information****Gene ID** 3949

Application & Usage	Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes mature LDLR (160 kDa), LDLR precursor (120 kDa) and LDLR monomer (~50 kDa).
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**Other Names**

FH , FHC , LDL receptor , LDLR , LDLR precursor

**Target/Specificity**

LDLR

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-LDLR polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

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

## **LDLR Antibody - 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:<a href="http://www.uniprot.org/citations/30443021" target="\_blank">30443021</a>).

### **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 - 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 - Images**

## **LDLR Antibody - Background**

Low density lipoprotein receptors (LDLR) are cell surface glycoproteins that regulate LDL cholesterol by scavenging LDL from the blood. LDLR is characterized by a cluster of cysteine-rich class A repeats, EGF-like repeats, the O-linked sugars domain and six YWTD or class B repeats. Mutations in the LDLR gene cause autosomal dominant disease such as familial hypercholesterolemia (FH) and atherosclerosis.