**Basic Information**

- **Catalog Number:** 10785-1-AP
- **Size:** 150μl, Concentration: 800 μg/ml by Nanodrop.
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG1236
- **GenBank Accession Number:** BC014514
- **GeneID (NCBI):** 3949
- **Full Name:** low density lipoprotein receptor
- **Calculated MW:** 95 kDa
- **Observed MW:** 100-160 kDa
- **Purification Method:** Antigen affinity purification
- **Recommended Dilutions:**
  - **WB:** 1:1000-1:4000
  - **IP:** 0.5-4.0 ug for IP and 1:500-1:1000 for WB
  - **IHC:** 1:500-1:2000
  - **IF:** 1:200-1:800

**Tested Applications:**
- FC, IF, IHC, IP, WB, ELISA

**Cited Applications:**
- FC, IF, IP, WB

**Species Specificity:**
- human, mouse

**Cited Species:**
- human, Chicken, rat, mouse, Hamster, pig

**Positive Controls:**
- **WB:** HeLa cells, Jurkat cells, human brain tissue, Raji cells, mouse brain tissue, HL-60 cells
- **IP:** HeLa cells
- **IHC:** mouse brain tissue, human brain tissue, mouse liver tissue, human pancreas tissue, human colon cancer tissue
- **IF:** HeLa cells

**Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Background Information**

LDLR (low density lipoprotein receptor) is a member of the LDL receptor gene family and is involved in receptor-mediated endocytosis of specific ligands. The LDLR is a cell surface glycoprotein that scavenges LDL from the blood and regulates plasma LDL cholesterol. The cytoplasmic domain of the LDL receptor is necessary for the receptor to cluster in coated pits, which promotes the rapid endocytosis of bound LDL. The protein is highly glycosylated through N- and O-linkages and thus migrates at 100 to 160 kDa bands on SDS-PAGE.

**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
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<tr>
<td>Haiyan He</td>
<td>36125039</td>
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<tr>
<td>Yimin Jia</td>
<td>27648945</td>
<td>J Agric Food Chem</td>
<td>WB</td>
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<tr>
<td>Yong Huang</td>
<td>32938225</td>
<td>Am J Physiol Cell Physiol</td>
<td>WB</td>
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**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage***

*** 20ul sizes contain 0.1% BSA

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For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) [toll free in USA], or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

HeLa cells were subjected to SDS PAGE followed by western blot with 10785-1-AP (LDLR antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10785-1-AP (LDLR antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10785-1-AP (LDLR antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using LDLR antibody (10785-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

IP Result of anti-LDLR (IP:10785-1-AP, 5ug; Detection:10785-1-AP 1:300) with HeLa cells lysate 1200ug.

1X10⁶ HeLa cells were stained with .2ug LDLR antibody (10785-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.