

## Anti-LDLR Antibody (4A515)

### Product Details

|               |                         |
|---------------|-------------------------|
| Ig Type:      | Rabbit IgG              |
| Reactivity:   | Human                   |
| Conjugation:  | Unconjugated            |
| Clone:        | 4A515                   |
| Purification: | Affinity-chromatography |

### Applications

#### 1. Western Blot

- Positive WB detected in: Hela whole cell lysate(30µg), JK whole cell lysate(30µg), SY5Y whole cell lysate(30µg)
- All lanes: LDLR antibody at 1:1000
- Secondary: Goat polyclonal to rabbit IgG at 1/20000 dilution
- Predicted band size: 96 kDa
- Observed band size: 100,140 kDa
- Exposure time: 60s

2. Immunofluorescence staining of Hela cell with TMAH-00688 at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

3. Immunofluorescence staining of Hela cell with 5% goat serum, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

#### Verified Activity:

4. Immunofluorescence staining of HepG2 cell with TMAH-00688 at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

5. Immunofluorescence staining of HepG2 cell with 5% goat serum, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

6. Overlay Peak curve showing Hela cells stained with TMAH-00688 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1µg/1\*10<sup>6</sup> cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 35min at 4°C. Control antibody (green line) was Rabbit IgG (1µg/1\*10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

## A DRUG SCREENING EXPERT

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Application: ELISA,FCM,IF,IHC  
Recommended IHC:1:50-1:200; IF:1:20-1:200; FCM:1:20-1:200.

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.  
Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: A synthetic peptide: Human LDL Receptor  
Antigen Species: Human  
Gene ID: 3949  
Uniprot ID: P01130  
Synonyms: LDL R;FH;LDLR;LDL receptor;FHC;LDLCQ2  
Biology Area: Cancer, Cardiovascular, Metabolism, Signal transduction

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### Research Background

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. (Microbial infection) Acts as a receptor for hepatitis C virus in hepatocytes, but not through a direct interaction with viral proteins. (Microbial infection) Acts as a receptor for Vesicular stomatitis virus. (Microbial infection) In case of HIV-1 infection, may function as a receptor for extracellular Tat in neurons, mediating its internalization in uninfected cells.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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