

Datasheet for ABIN7543251

## Recombinant anti-LDLR antibody



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### Overview

|                |                                                                                                                   |
|----------------|-------------------------------------------------------------------------------------------------------------------|
| Quantity:      | 200 µg                                                                                                            |
| Target:        | LDLR                                                                                                              |
| Reactivity:    | Human                                                                                                             |
| Host:          | Rabbit                                                                                                            |
| Antibody Type: | Recombinant Antibody                                                                                              |
| Clonality:     | Chimeric                                                                                                          |
| Conjugate:     | This LDLR antibody is un-conjugated                                                                               |
| Application:   | Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunofluorescence (IF), Inhibition (Inh) |

### Product Details

|                   |                                                                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:          | Anti-LDL Receptor [C7], Rabbit IgG, kappa                                                                                                                                                                                                                                                                                                |
| Immunogen:        | The original antibody was produced by immunization of BALB/C mice with the extra cellular domain of the bovine LDL-R.                                                                                                                                                                                                                    |
| Clone:            | C7                                                                                                                                                                                                                                                                                                                                       |
| Isotype:          | IgG kappa                                                                                                                                                                                                                                                                                                                                |
| Specificity:      | The antibody recognizes the ligand binding domain. It binds to the bovine LDL-R, the human LDL-R but it does not cross react with the LDL-Rs of rat, mouse, Chinese hamster, rabbit and dog. The LDL receptor is a cell surface protein that binds LDL, the major cholesterol-transport protein in plasma, and mediates its endocytosis. |
| Cross-Reactivity: | Cow                                                                                                                                                                                                                                                                                                                                      |

## Product Details

|                  |                               |
|------------------|-------------------------------|
| Characteristics: | Original Species of Ab: Mouse |
|                  | Original Format of Ab: IgG2b  |

|               |                             |
|---------------|-----------------------------|
| Purification: | Protein A affinity purified |
|---------------|-----------------------------|

## Target Details

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Target:           | LDLR                                                           |
| Alternative Name: | LDL Receptor ( <a href="#">LDLR Products</a> )                 |
| Background:       | LDLR, Low-density lipoprotein receptor, IgG-C7                 |
| UniProt:          | <a href="#">P01130</a>                                         |
| Pathways:         | <a href="#">Hepatitis C</a> , <a href="#">Lipid Metabolism</a> |

## Application Details

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|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | <p>The antibody (IgG2b) was employed for the staining of the LDL receptor in normal fibroblast. The antibody competed with LDL for binding to the LDL receptor of intact fibroblast, complete inhibition was achieved at 37 C but not at 4 C (Beisiegel et al., 1981, PMID: 6271765). The antibody detected LDL receptor from human fibroblasts and bovine adrenal cortex by western blot analysis (Beisiegel et al., 1982, PMID: 6290495). The LDL receptor was immunoprecipitated using this antibody (Davis et al., 1987, PMID: 3494949). This antibody was used for detection of LDL receptor expressed on Chang and CHO cells by flow cytometry (Holst et al., 2001, PMID: 11781697) (Ranheim et al., 2006, PMID: 16740646). Immunofluorescence was performed on liver Chang cells using this antibody, showing that the WT protein was localised on the cell surface whereas the two mutant proteins were localised intracellularly (Holst et al., 2001, PMID: 11781697). The antibody was used to inhibit the binding of LDL to its receptor LDLR in brain capillary endothelial cells. Coincubations of LDL with increasing concentrations of the antibody decreased the rate of passage of the LDL through the monolayer, LDL transcytosis was totally abolished at the concentration of 1 mg/mL of antibody. This confirmed that the LDL receptor is involved receptor-mediated transcytosis (Dehouck et al., 1997, PMID: 9265653).</p> |
| Comment:           | This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format for improved compatibility with existing reagents assays and techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Handling

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|                    |                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------|
| Concentration:     | 1 mg/mL                                                                                                           |
| Buffer:            | PBS with 0.02 % Proclin 300.                                                                                      |
| Preservative:      | ProClin                                                                                                           |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C,-20 °C                                                                                                       |
| Storage Comment:   | Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.                                  |