Datasheet for ABIN7543252

Recombinant anti-LDLR antibody

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Overview

Quantity:	200 µg
Target:	LDLR
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
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], Mouse IgG2b, 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:	IgG2b 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 (LDLR Products)
Background:	LDLR, Low-density lipoprotein receptor, IgG-C7
UniProt:	P01130
Pathways:	Hepatitis C, Lipid Metabolism

Application Details

Application Notes:	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).
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.

Handling

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.