Datasheet for ABIN113462

anti-LDLR antibody (Extracellular Domain) (Biotin)

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Overview

Quantity:	0.25 mL
Target:	LDLR
Binding Specificity:	AA 184-195, Extracellular Domain
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LDLR antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Specific synthetic peptide (sequence not conserved in VLDL receptor and LRP) of the LDL receptor extracellular domain (epitope between residues nos. 184-195, the linker region between repeats 4 and 5).
Specificity:	The LDL receptor (160 kDa mature or glycosylated receptor, 120 kDa precursor or unglycosylated receptor) plays a key role in cellular cholesterol homeostasis. The antibody to LDL-R reacts specifically with Human LDL-R and is suitable for use in Flow Cytometry and Immunoblotting. First data show that the antibody does not inhibit binding of LDL. In Immunoblotting, the antibody recognizes the 160 kDa band of LDLR and a 120 kDa band of the LDLR precursor from fibroblasts, hepatocytes, and monocytic cells cultured in the presence of lipoprotein-deficient serum.
Cross-Reactivity (Details):	Species reactivity (tested):Human.

Product Details

Purification:	Immunoaffinity chromatography

Target Details

Target:	LDLR
Alternative Name:	LDLR (LDLR Products)
Background:	The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. Low density lipoprotein (LDL) is normally bound at the cell membrane and taken into the cell ending up in lysosomes where the protein is degraded and the cholesterol is made available for repression of microsomal enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase, the rate-limiting step in cholesterol synthesis. At the same time, a reciprocal stimulation of cholesterol ester synthesis takes place. Mutations in this gene cause the autosomal dominant disorder, familial hypercholesterolemia.Synonyms: LDL receptor, LDLR, Low-density lipoprotein receptor
Gene ID:	3949
NCBI Accession:	NP_000518
UniProt:	P01130
Pathways:	Hepatitis C, Lipid Metabolism

Application Details

Application Notes:	Flow cytometry: 1: 10. Receptor binding studies. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with Penicillin / Streptomycin for antibiotic protection
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

Product cited in:	Akazawa, Date, Morikawa, Murayama, Miyamoto, Kaga, Barth, Baumert, Dubuisson, Wakita: " CD81 expression is important for the permissiveness of Huh7 cell clones for heterogeneous hepatitis C virus infection." in: **Journal of virology**, Vol. 81, Issue 10, pp. 5036-45, (2007) (PubMed).

