Product datasheet

anti-LDL Receptor mouse monoclonal, IgG-C7, lyophilized, purified

Short overview

Cat. No.	61087
Quantity	50 µg
Concentration	50 µg/ml after reconstitution with 1 ml dist. water

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2b kappa
Clone	IgG-C7
Immunogen	Purified bovine adrenal cortex LDL receptor
Formulation	Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.5% BSA in PBS buffer, pH 7.4)
UniprotID	P01131 (Bovine), P01130 (Human)
Synomym	Low-density lipoprotein receptor, LDL receptor, LDLR
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage before reconstitution	2-8°C until indicated expiry date
Storage after reconstitution	Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	ICC/IF
Reactivity	Bovine, Human
No reactivity	Dog, Hamster, Mouse, Rabbit, Rat

Applications

Immunocytochemistry (ICC)	1:101:100
Immunohistochemistry (IHC) - paraffin	1:100

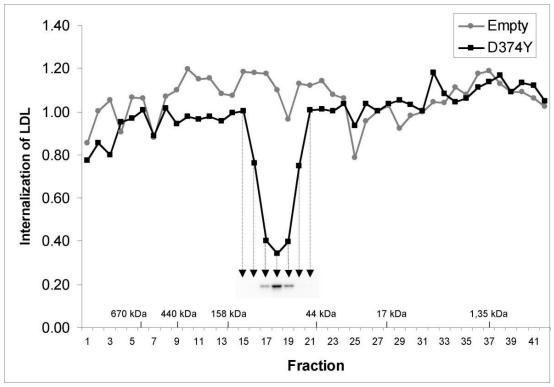
Background

Suitable for analysis of LDL receptor function in patients with familial hypercholesterolemia. The antibody recognizes an epitope in the region of repeat #1 of the ligand binding region. Addition of 15 nM antibody results in inhibition of half-maximal LDL-binding (Beisiegel et al. 1981). In human normal fibroblasts the antibody detects the 160 kDa polypeptide (pI 4.3) and also in bovine adrenal gland (160 kDa; pI 4.6) of LDL receptors (Beisiegel et al. 1982).

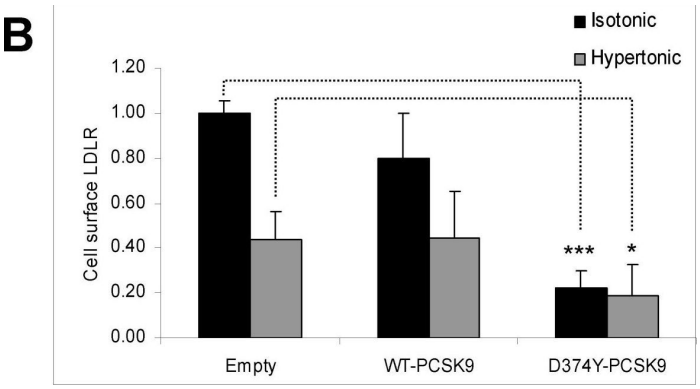
Beisiegelt, U., Schneider, W. J., Brown, M. S. & Goldstein, J. L. Immunoblot Analysis of Low Density Lipoprotein Receptors in Fibroblasts from Subjects with Familial Hypercholesterolemia. J. Biol. Chem. 257, 1315013156 (1982).Beisiegel, U., Schneider, W. J., Goldstein, J. L., Anderson, R. G. & Brown, M. S. Monoclonal antibodies to the low density lipoprotein receptor as probes for study of receptor-mediated endocytosis and the genetics of familial hypercholesterolemia. J. Biol. Chem. 256, 1192331 (1981).

Product images

anti-LDL Receptor mouse monoclonal, IgG-C7, lyophilized, purified



Holla, Ã˜. L., Cameron, J., et al. Degradation of the LDL receptors by PCSK9 is not mediated by a secreted protein acted upon by PCSK9 extracellularly. BMC Cell Biol. 2007-03-01. Species/Reactant: Homo sapiens (Human)Applications: Flow cytometry/Cell sortingImage collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.



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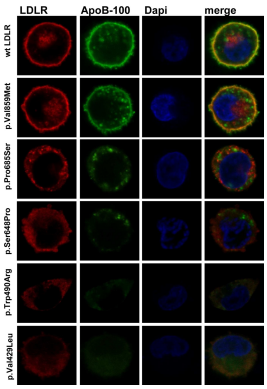

Etxebarria, A., Benito-Vicente, A., et al. Advantages and versatility of fluorescence-based methodology to characterize the functionality of LDLR and class mutation assignment. PLoS One. 2014-11-12. Species/Reactant: Cricetulus griseus (Chinese hamster)Applications: Immunocytochemistry-immunofluorescenceImage collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.

References

Publication	Species	Application
Jasiecki, J. et al. Novel Tools for Comprehensive Functional Analysis of LDLR (Low-Density Lipoprotein Receptor) Variants. Int. J. Mol. Sci. 24, 1â€“17 (2023).	Human	WB, ICC-IF
Banerjee, P. et al. Functional Analysis of LDLR (Low-Density Lipoprotein Receptor) Variants in Patient Lymphocytes to Assess the Effect of Evinacumab in Homozygous... Arterioscler Thromb Vasc Biol. 39, 2248-2260(2019).	human	ICC-IF
Bjune, K. et al. Triciribine increases LDLR expression and LDL uptake through stabilization of LDLR mRNA. Sci.Rep. 8, 16174 (2018).	human	FACS
Bjune, K. et al. MK-2206, an allosteric inhibitor of AKT, stimulates LDLR expression and LDL uptake: A potential hypocholesterolemic agent. Atherosclerosis. 276, 28-38 (2018)	human	FACS
Etxebarria, A. et al. Advantages and Versatility of Fluorescence-Based Methodology to Characterize the Functionality of LDLR and Class Mutation Assignment. PLoS One 9, (2014).	human	ICC-IF,FACS