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LDLR Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant LDLR.
Catalog # AT2690a

Product Information

Application	WB, E
Primary Accession	P01130
Other Accession	NM_000527
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5E8
Calculated MW	95376

Additional Information

Gene ID	3949
Other Names	Low-density lipoprotein receptor, LDL receptor, LDLR
Target/Specificity	LDLR (NP_000518, 105 a.a. ~ 205 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	LDLR Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

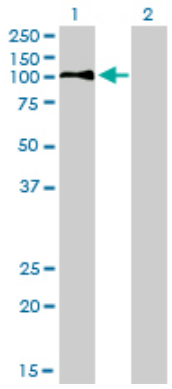
Background

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.

References

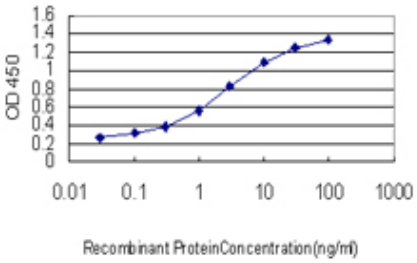
1.The expression of LDL receptor in vessels with blood-brain barrier impairment in a stroke-prone hypertensive model.Ueno M, Wu B, Nakagawa T, Nagai Y, Onodera M, Huang CL, Kusaka T, Kanenishi K, Sakamoto H.Histochem Cell Biol. 2010 Jun;133(6):669-76. Epub 2010 May 11.

Images



Western Blot analysis of LDLR expression in transfected 293T cell line by LDLR monoclonal antibody (M01), clone 5E7.

Lane 1: LDLR transfected lysate(94.6 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged LDLR is approximately 0.3ng/ml as a capture antibody.