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# LDLR Antibody (monoclonal) (M01)

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

## Specification

### LDLR Antibody (monoclonal) (M01) - Product Information

| | |
|---|---|
| Application | **WB, E** |
| Primary Accession | P01130 |
| Other Accession | NM_000527 |
| Reactivity | **Human** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG2a Kappa** |
| Calculated MW | **95376** |

### LDLR Antibody (monoclonal) (M01) - 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.

### LDLR Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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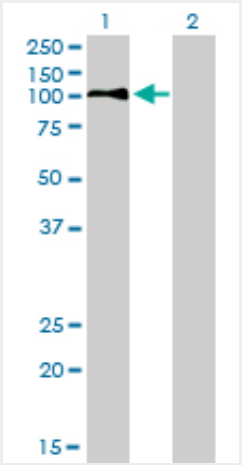
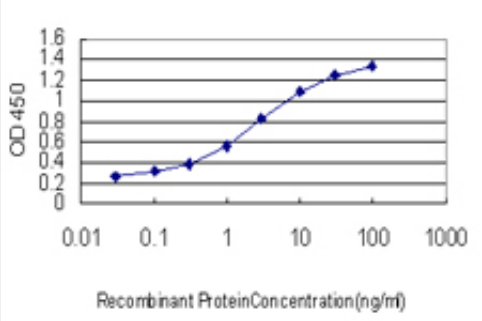
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**LDLR Antibody (monoclonal) (M01) - 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.

**LDLR Antibody (monoclonal) (M01) - 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.

**LDLR Antibody (monoclonal) (M01) - 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.