

HMGCR

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:1000 - 1:4000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW: 95kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human HMGCR

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

LDLCQ3;

Catalog #: A1633

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 3156

Isotype: IgG

Swiss Prot: P04035

Purity: Affinity purification

For research use only.

Background:

HMG-CoA reductase is the rate-limiting enzyme for cholesterol synthesis and is regulated via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from mevalonate, the product of the reaction catalyzed by reductase. Normally in mammalian cells this enzyme is suppressed by cholesterol derived from the internalization and degradation of low density lipoprotein (LDL) via the LDL receptor. Competitive inhibitors of the reductase induce the expression of LDL receptors in the liver, which in turn increases the catabolism of plasma LDL and lowers the plasma concentration of cholesterol, an important determinant of atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]

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