

## 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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