

Product datasheet for **TA323545**

HMGCR Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 260 amino acids of human 3-hydroxy-3-methylglutaryl-CoA reductase
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	95 kDa
Gene Name:	3-hydroxy-3-methylglutaryl-CoA reductase
Database Link:	NP_000850 Entrez Gene 15357 Mouse Entrez Gene 25675 Rat Entrez Gene 3156 Human P04035



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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.

Synonyms:

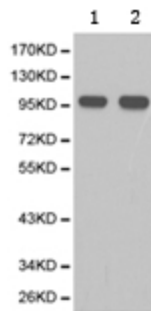
LDLCQ3

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

Metabolic pathways, Terpenoid backbone biosynthesis

Product images:

Predicted band size: 95 kDa. Positive control: HepG2 and HeLa cell lysate. Recommended dilution: 1/500-2000. (Gel: 8%SDS-PAGE Lane 1: HepG2 cell lysate Lane 2: HeLa cell lysate Lysates: 40 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)