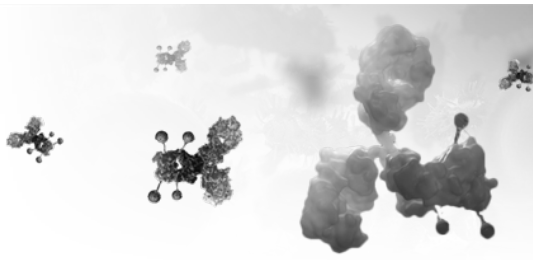

Anti-HMGCR (internal region) polyclonal antibody (DPAB-DC1572)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	A synthetic peptide corresponding to amino acids at internal region of human HMGCR. The sequence is C-ADPSPQNSTADTSK
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen affinity purification
Conjugate	Unconjugated
Applications	ELISA,
Format	Liquid
Concentration	0.5 mg/mL
Size	100 µg
Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)

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Preservative	0.02% Sodium Azide
Storage	Store at -20°C.Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	HMGCR 3-hydroxy-3-methylglutaryl-CoA reductase [Homo sapiens (human)]
Official Symbol	HMGCR
Synonyms	HMGCR; 3-hydroxy-3-methylglutaryl-CoA reductase; LDLCQ3; 3-hydroxy-3-methylglutaryl-Coenzyme A reductase; HMG-CoA reductase; hydroxymethylglutaryl-CoA reductase; 3-hydroxy-3-methylglutaryl CoA reductase (NADPH);
Entrez Gene ID	3156
Protein Refseq	NP_000850
UniProt ID	A0A024RAP2
Chromosome Location	5q13.3-q14
Pathway	AMPK signaling; AMPK signaling pathway; Bile secretion; C5 isoprenoid biosynthesis, mevalonate pathway
Function	NADPH binding; coenzyme binding; hydroxymethylglutaryl-CoA reductase (NADPH) activity; hydroxymethylglutaryl-CoA reductase activity

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