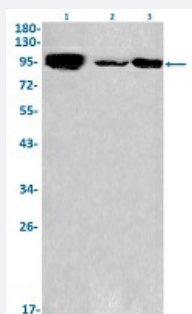


RecomAb™

HMGCR recombinant monoclonal antibody, clone R04-2J3

Catalog # RAB02214 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: K562, Lane 2: 3T3 and Lane 3: Hela lysates with HMGCR recombinant monoclonal antibody, clone R04-2J3 (Cat # RAB02214).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human HMGCR.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human HMGCR.
Theoretical MW (kDa)	Calculated MW: 97 kD
Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at -20 °C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of Lane 1: K562, Lane 2: 3T3 and Lane 3: Hela lysates with HMGCR recombinant monoclonal antibody, clone R04-2J3 (Cat # RAB02214).

- Immunoprecipitation

Gene Info — HMGCR

Entrez GeneID[3156](#)**Protein Accession#**[P04035](#)**Gene Name**

HMGCR

Gene Alias

-

Gene Description

3-hydroxy-3-methylglutaryl-Coenzyme A reductase

Omim ID[142910](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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]

Other Designations

3-hydroxy-3-methylglutaryl CoA reductase (NADPH)|hydroxymethylglutaryl-CoA reductase

Pathway

- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Metabolic pathways](#)
- [Terpenoid backbone biosynthesis](#)

Disease

- [Acute Disease](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cognition Disorders](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Diseases in Twins](#)
- [Drug Toxicity](#)
- [Ductus Arteriosus](#)
- [Dyslipidemias](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Infant](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Polycystic Ovary Syndrome](#)
- [Pulmonary Disease](#)
- [Stroke](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)