

HMGCR Antibody

Catalog No: #32356

Package Size: #32356-1 50ul #32356-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

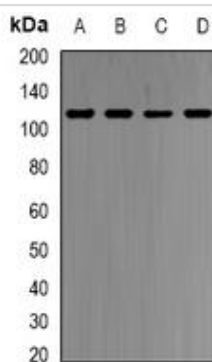
Description

Product Name	HMGCR Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	The antibody was purified by immunogen affinity chromatography.
Applications	WB;IHC
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total HMGCR protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant fusion protein of human HMGCR (NP_000850.1).
Conjugates	Unconjugated
Target Name	HMGCR
Other Names	HMGCR;LDLCQ3;HMGCR
Accession No.	Uniprot:P04035GeneID:3156
SDS-PAGE MW	97KDa
Concentration	1.0mg/ml
Formulation	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

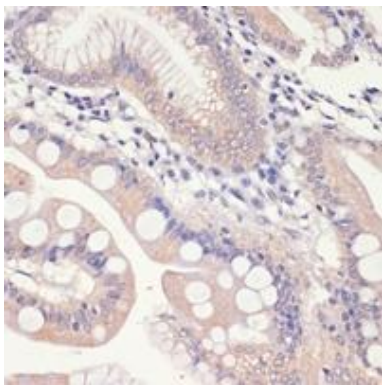
Application Details

WB 1:500-1:1000; IHC 1:50-1:100;

Images



Western blot analysis of HMGCR expression in HepG2 (A), Hela(B), mouse spleen (C), rat liver (D) whole cell lysates.



Western blot analysis of HMGCR expression in HepG2 (A), Hela(B), mouse spleen (C), rat liver (D) whole cell lysates.

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.

Published Papers

et al., Diaporisoindole B Reduces Lipid Accumulation in THP-1 Macrophage Cells via MAPKs and PPAR γ -LXR α Pathways and Promotes the Reverse Cholesterol Transport by Upregulating SR-B1 and LDLR in HepG2 Cells. In J Nat Prod on 2022 Dec 23 by Hongju Liu, Huiyi Xie, et al..PMID:36399085, , (2022)

[PMID:36399085](#)

et al., Cholesterol-lowering effects of rhubarb free anthraquinones and their mechanism of action. In Eur J Pharmacol on 2024 Mar 5 by Lifang Wang, Haijiao Wang,et al..PMID:38286356, , (2024)

[PMID:38286356](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.