Product Datasheet

HMGCR Antibody

Catalog No: #32356

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

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

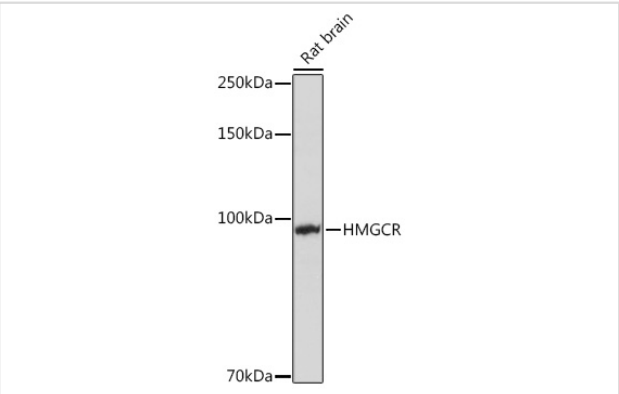
Description

Product Name	HMGCR Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	The antibody was purified by immunogen affinity chromatography.
Applications	WB,IHC,IF
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	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

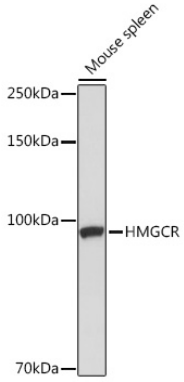
Application Details

WB□1:1000 - 1:4000IHC□1:50 - 1:100IF□1:50 - 1:200

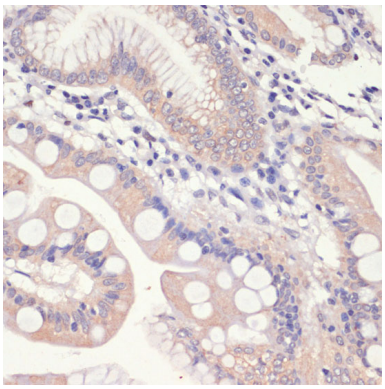
Images



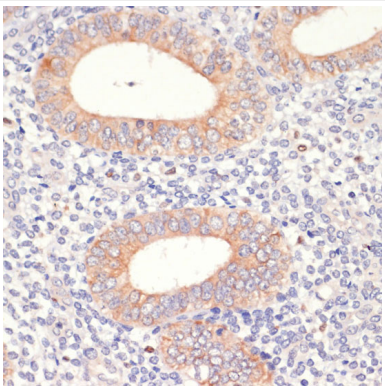
Western blot analysis of extracts of Rat brain, using HMGCR Rabbit pAb.



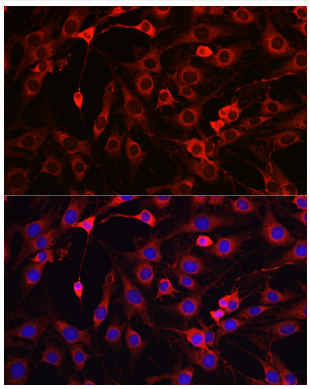
Western blot analysis of extracts of Mouse spleen, using HMGCR Rabbit pAb.



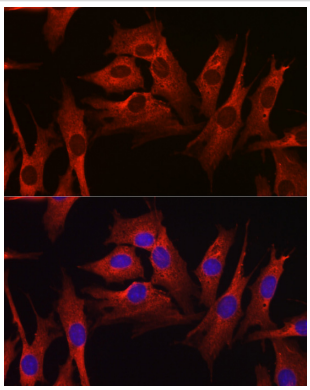
Immunohistochemistry of paraffin-embedded human small intestine using HMGCR antibody.



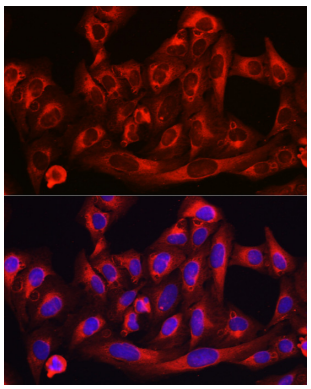
Immunohistochemistry of paraffin-embedded human uterine cancer using HMGCR antibody.



Immunofluorescence analysis of C6 cells using HMGCR Rabbit pAb.



Immunofluorescence analysis of NIH-3T3 cells using HMGCR Rabbit pAb.



Immunofluorescence analysis of U-2 OS cells using HMGCR Rabbit pAb.

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

el at., Diaporisoindole B Reduces Lipid Accumulation in THP-1 Macrophage Cells via MAPKs and PPARγ-LXRα 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

el at., 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.