

Datasheet for ABIN3022294 anti-HMGCR antibody (AA 629-888)



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Overview

Quantity:	100 µL
Target:	HMGCR
Binding Specificity:	AA 629-888
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMGCR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 629-888 of human HMGCR (NP_000850.1).
Sequence:	ARLQKLHTSI AGRNLYIRFQ SRSGDAMGMN MISKGTEKAL SKLHEYFPEM QILAVSGNYC TDDKPAAINW IEGRGKSVVC EAVIPAKVVR EVLKTTEAM IEVNINKNLV GSAMAGSIGG YNAHAANIVT AIYIACGQDA AQNVGSSNCI TLMEASGPTN EDLYISCTMP SIEIGTVGGG TNLLPQQACL QMLGVQGACK DNPGENARQL ARIVCGTVMA GELSLMAALA AGHLVKSHMI HNRSKINLQD LQGACTKKTA
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	HMGR
Alternative Name:	HMGR (HMGR Products)
Background:	<p>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.,HMGR,LDLCQ3,HMGR,Cancer,Signal Transduction,Endocrine & Metabolism,Lipid Metabolism,Cholesterol Metabolism,AMPK Signaling Pathway,Cardiovascular,Heart,Lipids,Cardiovascular diseases,Heart disease,HMGR</p>
Molecular Weight:	92 kDa/97 kDa/99 kDa
Gene ID:	3156
UniProt:	P04035
Pathways:	AMPK Signaling , Negative Regulation of Hormone Secretion , Regulation of Lipid Metabolism by PPARalpha

Application Details

Application Notes:	WB,1:1000 - 1:4000,IHC,1:50 - 1:100,IF,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C

Handling

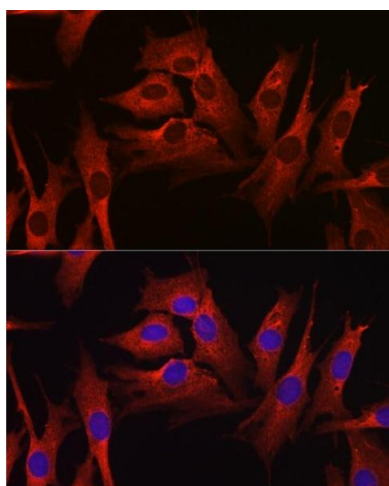
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in: Cheng, Zhu, Han, Zhang, Cui, Shen, Zhang, Yan, Prochownik, Li: "MicroRNA-148a deficiency promotes hepatic lipid metabolism and hepatocarcinogenesis in mice." in: **Cell death & disease**, Vol. 8, Issue 7, pp. e2916, (2018) ([PubMed](#)).

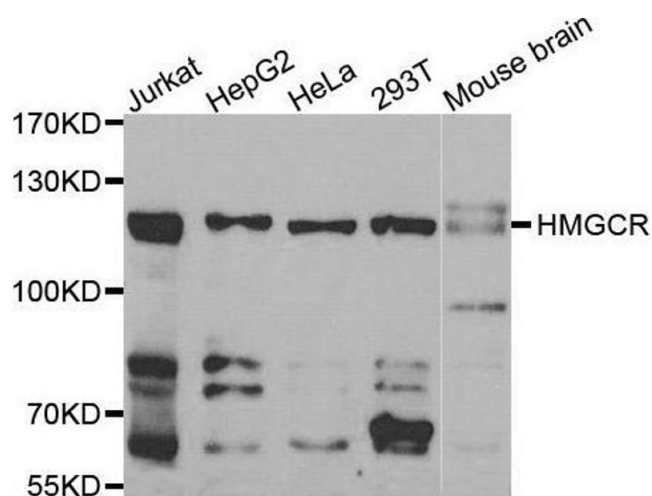
Li, Xia, Xiong, Wang, Yan: "Effects of sepsis on the metabolism of sphingomyelin and cholesterol in mice with liver dysfunction." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 6, pp. 5635-5640, (2017) ([PubMed](#)).

Images



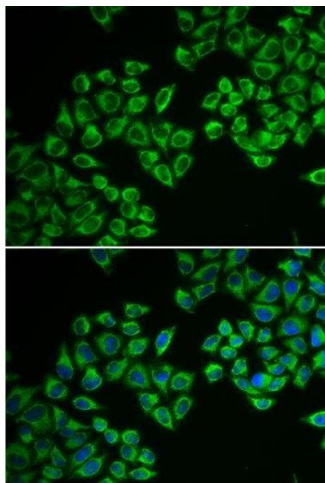
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH-3T3 cells using HMGCR Rabbit pAb (ABIN3022293, ABIN3022294, ABIN3022295, ABIN1513022 and ABIN6218714) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using HMGCR antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of A549 cell using HMGCRCR antibody. Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN3022294.