

## HMGCR Antibody (Center)

### Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6577c

### Specification

#### HMGCR Antibody (Center) - Product Information

Application	WB, IHC-P,E
Primary Accession	<a href="#">P04035</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	380-410

#### HMGCR Antibody (Center) - Additional Information

Gene ID 3156

#### Other Names

3-hydroxy-3-methylglutaryl-coenzyme A reductase, HMG-CoA reductase, HMGCR

#### Target/Specificity

This HMGCR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 380~410 amino acids from the Center region of human HMGCR.

#### Dilution

WB~~1:1000  
IHC-P~~1:50~100

#### Format

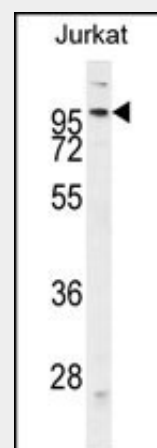
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### Storage

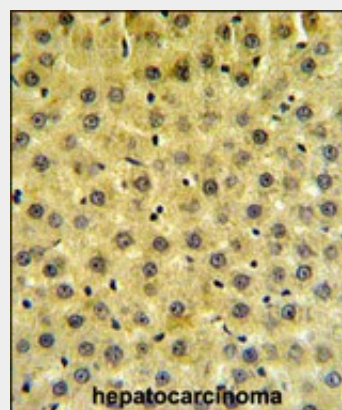
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

HMGR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.



Western blot analysis of HMGCR antibody (Center) (Cat. #AP6577c) in Jurkat cell line lysates (35ug/lane). HMGCR (arrow) was detected using the purified Pab.



HMGR Antibody (Center) (Cat. #AP6577c) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HMGR Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### HMGR Antibody (Center) - Background

HMG-CoA reductase is the rate-limiting enzyme for cholesterol synthesis and is

**HMGCR Antibody (Center) - Protein Information****Name** HMGCR ([HGNC:5006](#))**Function**

Catalyzes the conversion of (3S)-hydroxy-3-methylglutaryl-CoA (HMG-CoA) to mevalonic acid, the rate-limiting step in the synthesis of cholesterol and other isoprenoids, thus plays a critical role in cellular cholesterol homeostasis (PubMed: [2991281](http://www.uniprot.org/citations/2991281), PubMed: [21357570](http://www.uniprot.org/citations/21357570), PubMed: [6995544](http://www.uniprot.org/citations/6995544)). HMGCR is the main target of statins, a class of cholesterol-lowering drugs (PubMed: [11349148](http://www.uniprot.org/citations/11349148), PubMed: [18540668](http://www.uniprot.org/citations/18540668)).

**Cellular Location**

Endoplasmic reticulum membrane;  
Multi-pass membrane protein  
{ECO:0000250|UniProtKB:P00347}.  
Peroxisome membrane; Multi-pass  
membrane protein  
{ECO:0000250|UniProtKB:P00347}

**Tissue Location**

[Isoform 1]: Ubiquitously expressed with the highest levels in the cerebellum, fetal brain, testis, skin and adrenal gland. [Isoform 3]: Low abundance except in skin, esophagus, and uterine cervix.

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.

**HMGCR Antibody (Center) - References**

Chen,Y.C., Lipids 44 (8), 733-743 (2009)

**HMGCR Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

**HMGCR Antibody (Center) - Citations**

- [MicroRNA-185-5p mediates regulation of SREBP2 expression by hepatitis C virus core protein.](#)
- [Cross-talk between TLR4-MyD88-NF- \$\kappa\$ B and SCAP-SREBP2 pathways mediates macrophage foam cell formation.](#)