

**HMG-CoA Reductase Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10740****Specification**

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**HMG-CoA Reductase Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P04035</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 97476                  |

**HMG-CoA Reductase Antibody - Additional Information****Gene ID** 3156

|                     |                                                              |
|---------------------|--------------------------------------------------------------|
| Positive Control    | Jurkat cell lysate, HeLa cell lysate                         |
| Application & Usage | The antibody can be used for Western blotting (0.5-4 µg/ml). |

**Other Names**

hydroxymethylglutaryl-CoA reductase

**Target/Specificity**AMPK $\alpha$ 1**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-HMG-CoA Reductase polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

HMG-CoA Reductase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## HMG-CoA Reductase Antibody - Protein Information

**Name** HMGR ( [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: [21357570](http://www.uniprot.org/citations/21357570), PubMed: [2991281](http://www.uniprot.org/citations/2991281), PubMed: [36745799](http://www.uniprot.org/citations/36745799), PubMed: [6995544](http://www.uniprot.org/citations/6995544)). HMGR 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), PubMed: [36745799](http://www.uniprot.org/citations/36745799)).

### 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

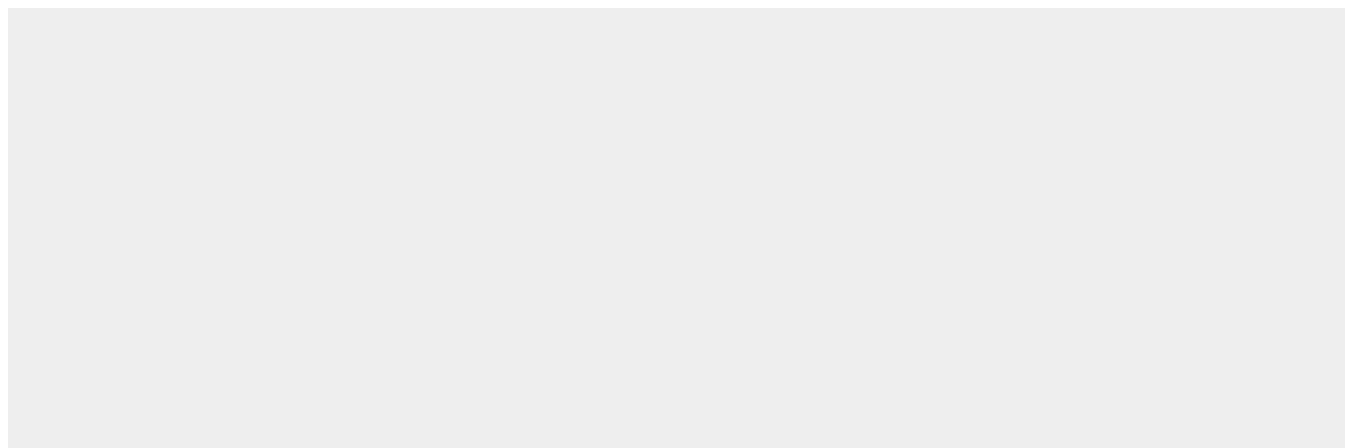
[Isoform 1]: Ubiquitously expressed with the highest levels in the cerebellum, fetal brain, testis, skin and adrenal gland. [Isoform 3]: Low abundance except in skin, esophagus, and uterine cervix.

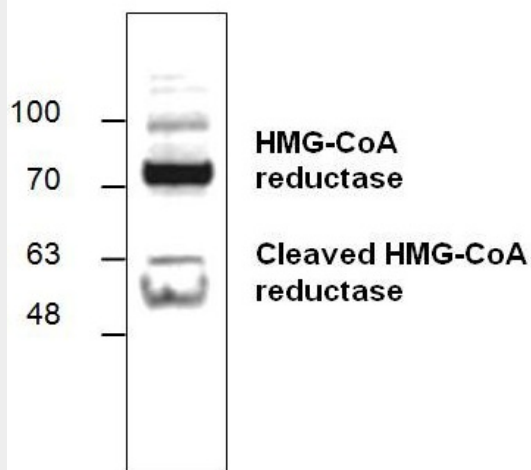
## HMG-CoA Reductase Antibody - Protocols

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](#)

## HMG-CoA Reductase Antibody - Images





### HMG-CoA Reductase Antibody - Background

HMG-CoA reductase (HMGCR) is the rate-limiting enzyme for cholesterol biosynthesis. HMGCR is regulated via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from the product of the reductase reaction. Statin, a class of cholesterol-lowering drugs, inhibits HMGCR by lowering plasma cholesterol.