

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

HMG-CoA Reductase Antibody - Product Information

Application	WB
Primary Accession	P04035
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
AMPKα1

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 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), PubMed: [36745799](http://www.uniprot.org/citations/36745799)). 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), 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

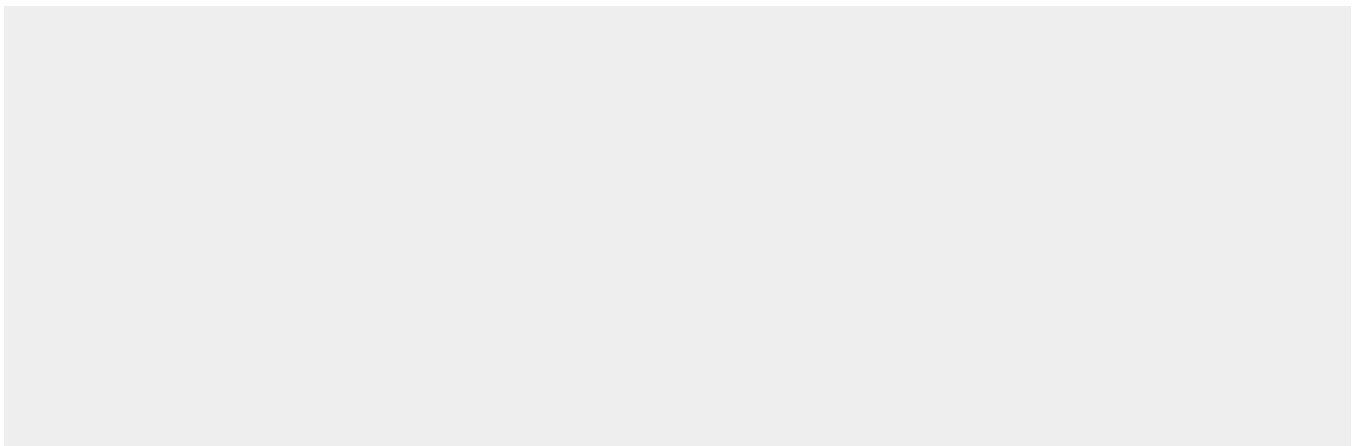
[Isoform 1]: Ubiquitously expressed with the highest levels in the cerebellum, fetal brain, testis, skin and adrenal gland. [Isoform 3]: Low abundance except in skin, esophagus, and uterine cervix.

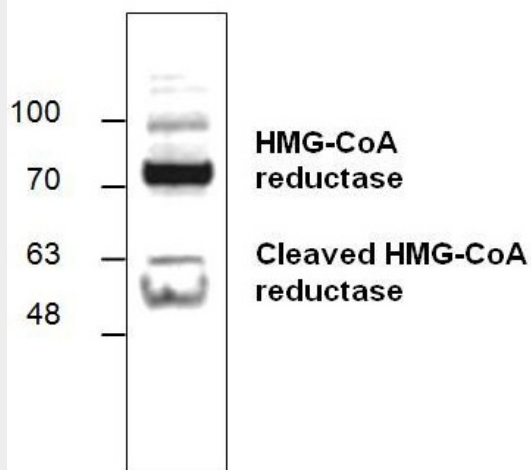
HMG-CoA Reductase Antibody - Protocols

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.