

Anti-HMG CoA Reductase Antibody
Rabbit Polyclonal Antibody
Catalog # ABV12035

Specification

Anti-HMG CoA Reductase Antibody - Product Information

Application	WB
Primary Accession	P04035
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

Anti-HMG CoA Reductase Antibody - Additional Information

Gene ID 3156

Application & Usage

WB: Rat kidney lysate, HeLa, HepGe cell lysate, HMG CoA human recombinant

Other Names

3-Hydroxy-3-methylglutaryl-CoA reductase, HMGR, HMGR

Target/Specificity

HMGR

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

In PBS pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.03% proclin.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

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

Anti-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: [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)). 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.

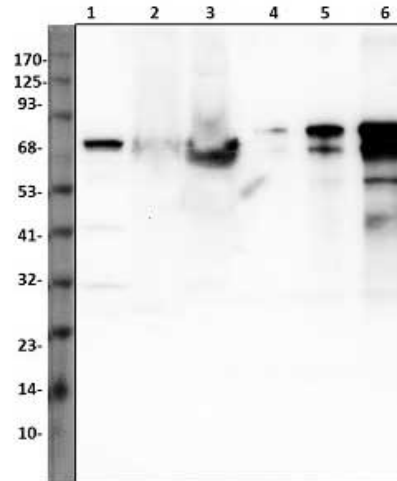
Anti-HMG CoA Reductase Antibody - Protocols

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](#)

Anti-HMG CoA Reductase Antibody - Images





Western blot of human HMG CoA antibody: Lane 1: Rat kidney lysate Lane 2: HeLa cell lysate
Lane 3: HepG2 cell lysate Lane 4: HMG CoA reductase 2 ng Lane 5: HMG CoA reductase 10 ng
Lane 6: HMG CoA reductase 50 ng

Anti-HMG CoA Reductase Antibody - Background

HMG-CoA reductase (3-hydroxy-3-methyl-glutaryl-CoA reductase or HMGR) (EC 1.1.1.34) is a transmembrane protein involved in the mevalonate pathway, the metabolic pathway that produces cholesterol from acetyl-CoA. In an NADPH-dependent reaction, HMG-CoA reductase reduces HMG-CoA to generate mevalonate and CoA. Since HMG-CoA reductase catalyzes the rate limiting step in cholesterol synthesis, it is a primary target of a group of cholesterol-lowering drugs known as statins. Inhibition of HMG-CoA reductase induces expression of LDL receptors in the liver, which lowers plasma concentration of cholesterol.