

HMG-CoA Blocking Peptide
Catalog # PBV10464b**Specification**

HMG-CoA Blocking Peptide - Product Information

Primary Accession	P04035
Gene ID	3156
Calculated MW	97476

HMG-CoA Blocking Peptide - Additional Information**Gene ID** 3156**Application & Usage**

The peptide is used for blocking the antibody activity of AMPK. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

3-hydroxy-3-methylglutaryl-coenzyme A reductase, HMG-CoA reductase, 1.1.1.34, HMGCR

Target/Specificity

HMG-CoA

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

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

HMG-CoA Blocking Peptide - 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, PubMed:<a href="http://www.uniprot.org/citations/21357570"

target="_blank">21357570, PubMed:6995544, PubMed:36745799). HMGCR is the main target of statins, a class of cholesterol-lowering drugs (PubMed:11349148, PubMed:18540668, PubMed: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 Blocking Peptide - 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 Blocking Peptide - Images