

HMGCS2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6793b**Specification**

HMGCS2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P54868](#)**HMGCS2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 3158**Other Names**Hydroxymethylglutaryl-CoA synthase, mitochondrial, HMG-CoA synthase,
3-hydroxy-3-methylglutaryl coenzyme A synthase, HMGCS2**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6793b](/products/AP6793b) was selected from the C-term region of human HMGCS2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HMGCS2 Antibody (C-term) Blocking Peptide - Protein Information**Name** HMGCS2**Function**

Catalyzes the first irreversible step in ketogenesis, condensing acetyl-CoA to acetoacetyl-CoA to form HMG-CoA, which is converted by HMG-CoA reductase (HMGCR) into mevalonate.

Cellular Location

Mitochondrion {ECO:0000250|UniProtKB:P22791}.

Tissue Location

Expression in liver is 200-fold higher than in any other tissue. Low expression in colon, kidney, testis, and pancreas Very low expression in heart and skeletal muscle (PubMed:7893153, PubMed:21952825, PubMed:16940161). Not detected in brain (PubMed:21952825).

HMGCS2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HMGCS2 Antibody (C-term) Blocking Peptide - Images

HMGCS2 Antibody (C-term) Blocking Peptide - Background

HMGCS2 belongs to the HMG-CoA synthase family. It is a mitochondrial enzyme that catalyzes the first reaction of ketogenesis, a metabolic pathway that provides lipid-derived energy for various organs during times of carbohydrate deprivation, such as fasting.

HMGCS2 Antibody (C-term) Blocking Peptide - References

Lu,Y., et.al., J. Lipid Res. 49 (12), 2582-2589 (2008)