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HMGCS2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6793b

Specification

HMGCS2 Antibody (C-term) Blocking Peptide - Product Information

Primary 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 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).

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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)