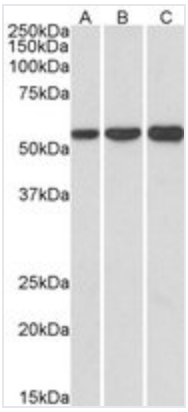
HMGCS1 Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	HMGCS1, Polyclonal Antibody
Full Product Name	Goat anti-HMGCS1 (aa321-332) Antibody
Product Gene Name	anti-HMGCS1 antibody
Product Synonym Names	Goat Anti-HMGCS1 Antibody; HMGCS1; 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble); HMGCS; 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble); hydroxymethylglutaryl-CoA synthase, cytoplasmic; HMGCS1 antibody; 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble) antibody; HMGCS antibody; 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) synthase antibody; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble) antibody; hydroxymethylglutaryl-CoA synthase; cytoplasmic antibody; HMGCS1 (aa321-332)
Immunogen Sequence	KASSELFSQK TK
Clonality	Polyclonal
Host	Goat
Species Reactivity	Tested: Human; Expected from sequence similarity: Human
Form/Format	Supplied at 0.5 mg/ml in Tris saline, 0. 02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Purity/Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Concentration	100ug specific antibody in 200ul (lot specific)
Preparation and Storage	Aliquot and store at -20 degree C. Minimize freezing and thawing.
Antibody/Peptide Pairs	HMGCS1 peptide (MBS428696) is used for blocking the activity of HMGCS1 antibody (MBS423525)
Molecular Weight	57,294 Da
OMIM	142940
Immunogen	Peptide with sequence C-KASSELFSQKTK, from the internal region of the protein sequence according to NP_002121.4.
Epitope	Internal region
Note	Reported variants represent identical protein: NP_002121.4, NP_001091742.1.
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Applications Tested/Suitable for anti-HMGCS1 antibody	Peptide ELISA (EIA), Western Blot (WB)
Application Notes for anti-HMGCS1 antibody	Peptide ELISA: Antibody detection limit dilution 1: 128000. Western Blot: Approx 57kDa band observed in lysates of cell lines HeLa, HepG2, and K562 (calculated MW of 57.3kDa according to NP_002121.4). Recommended concentration: 1-3ug/ml.
Related Product Information for anti-HMGCS1 antibody	MBS423525 is an antibody targeting HMGCS1. Also known as Goat anti-HMGCS1 (aa321-332) Antibody. Reactive in Tested: Human; Expected from sequence similarity: Human. Host: Goat.
Other Notes	Small volumes of anti-HMGCS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-HMGCS1 antibody
(1ug/ml) staining of HeLa (A), HepG2 (B) and K562 (C) lysates (35ug protein in RIPA buffer).
Primary incubation was 1 hour. Detected by chemiluminescence.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMGCS1. It may not necessarily be applicable to this product.

NCBI GI #	148298764
NCBI GeneID	3157
NCBI Accession #	NP_002121.4
UniProt Secondary Accession #	B2RDL8
UniProt Related Accession #	Q01581
GenBank Nucleotide #	NM_002130.7
NCBI Official Full Name	hydroxymethylglutaryl-CoA synthase, cytoplasmic isoform 1
NCBI Official Synonym Full Names	3-hydroxy-3-methylglutaryl-CoA synthase 1
NCBI Official Symbol	HMGCS1
NCBI Official Synonym Symbols	HMGCS
UniProt Protein Name	Hydroxymethylglutaryl-CoA synthase, cytoplasmic
UniProt Synonym Protein Names	3-hydroxy-3-methylglutaryl coenzyme A synthase
Protein Family	Hydroxymethylglutaryl-CoA synthase
UniProt Gene Name	HMGCS1
UniProt Synonym Gene Names	HMGCS; HMG-CoA synthase
UniProt Entry Name	HMCS1_HUMAN
NCBI Protein Information	hydroxymethylglutaryl-CoA synthase, cytoplasmic

UniProt Comments for HMGCS1	HMGCS1: This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase. Belongs to the HMG-CoA synthase family. Protein type: EC 2.3.3.10; Carbohydrate Metabolism - butanoate; Lipid Metabolism - synthesis and degradation of ketone bodies; Transferase; Amino Acid Metabolism - valine, leucine and isoleucine degradation; Secondary Metabolites Metabolism - terpenoid backbone biosynthesis Chromosomal Location of Human Ortholog: 5p14-p13 Cellular Component: cytoplasm; cytosol; nucleoplasm; nucleus; plasma membrane Molecular Function: drug binding; hydroxymethylglutaryl-CoA synthase activity; isomerase activity; organic acid binding; protein homodimerization activity Biological Process: brain development; cholesterol biosynthetic process; isoprenoid biosynthetic process; lipid metabolic process; liver development; male gonad development; response to drug; response to lipoprotein stimulus; response to low light intensity; response to purine; response to tellurium ion; response to vitamin E
Research Articles on HMGCS1	**1.** The authors report high-resolution crystal structures of the human cytosolic (hHMGCS1) and mitochondrial (hHMGCS2) isoforms in binary product complexes.
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