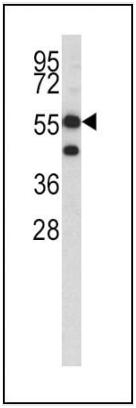
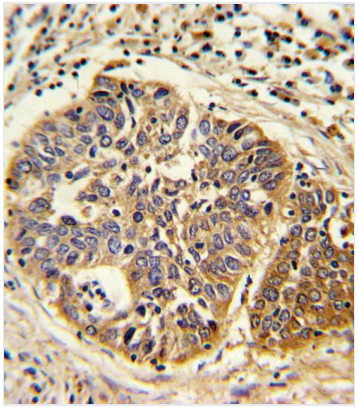
HMGCS1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

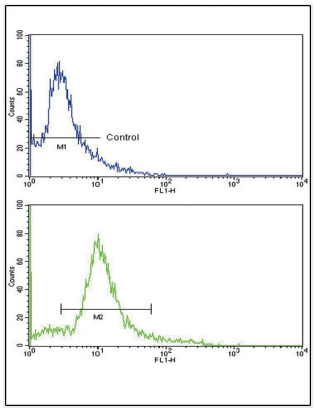
Product Name	HMGCS1, Polyclonal Antibody
Full Product Name	HMGCS1, CT (3-hydroxy-3-methylglutaryl Coenzyme A Synthase, Hydroxymethylglutaryl-CoA Synthase Cytoplasmic, HMG-CoA Synthase, HMGCS, MGC90332) (PE)
Product Gene Name	anti-HMGCS1 antibody
Product Synonym Names	3-hydroxy-3-methylglutaryl-CoA Synthase 1 (Soluble); EC=2.3.3.10
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human HMGCS1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	57kDa
OMIM	142940
3D Structure	ModBase 3D Structure for Q01581
Immunogen	Synthetic peptide selected from the C-terminal region of human HMGCS1 (KLH).
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-HMGCS1 antibody	Antibodies; Coenzyme A
Applications Tested/Suitable for anti-HMGCS1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-HMGCS1 antibody	WB: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HMGCS1 antibody	MBS6481010 is an antibody targeting HMGCS1. Also known as HMGCS1, CT (3-hydroxy-3-methylglutaryl Coenzyme A Synthase, Hydroxymethylglutaryl-CoA Synthase Cytoplasmic, HMG-CoA Synthase, HMGCS, MGC90332) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-HMGCS1 antibody	1. Vock, C., Cell. Physiol. Biochem. 22(5-6), 515-524 (2008).
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
Western blot analysis of HMGCS1 antibody (C-term) in K562 cell line lysates (35ug/lane). NKRF (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-HMGCS1 antibody
Formalin-fixed and paraffin-embedded human lung carcinoma reacted with HMGCS1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-HMGCS1 antibody
Flow cytometric analysis of hela cells using HMGCS1 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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
UniProt Primary Accession #	Q01581
UniProt Related Accession #	Q01581
GenBank Nucleotide #	NM_002130
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
Research Articles on HMGCS1	**1.** Data suggest that HMGCS1 (HMG-CoA synthase 1) signals through ketogenesis/acetoacetate to promote cell proliferation and BRAF(V600E)-dependent MEK1 activation in BRAF(V600E)-positive melanoma and colon cancer cells; HMGCS1 co-localizes with HMGCL (HMG-CoA lyase) and BRAF(V600E) in cytosol of melanoma and colon cancer cells. (BRAF = proto-oncogene protein B-raf)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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