Datasheet for ABIN390764

anti-HMGCS2 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	HMGCS2
Binding Specificity:	AA 478-508, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMGCS2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This HMGCS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 478-508 amino acids from the C-terminal region of human HMGCS2.
Clone:	RB19373
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	HMGCS2
Alternative Name:	HMGCS2 (HMGCS2 Products)

Target Details

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.
Molecular Weight:	56635
Gene ID:	3158
NCBI Accession:	NP_001159579, NP_005509
UniProt:	P54868
Pathways:	Response to Growth Hormone Stimulus, Cellular Response to Molecule of Bacterial Origin, Regulation of Lipid Metabolism by PPARalpha

Application Details

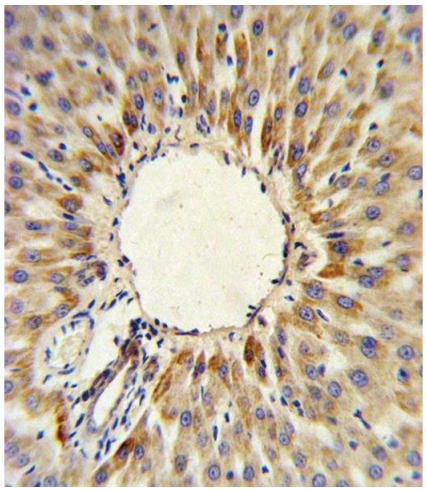
Application Notes:	WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

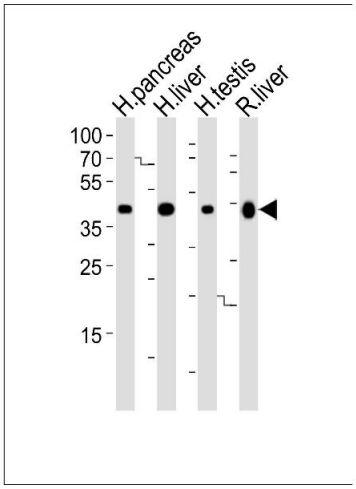
Publications

Product cited in:	Xu, Han, Epstein, Liu: "Regulation of PDK mRNA by high fatty acid and glucose in pancreatic islets." in: **Biochemical and biophysical research communications**, Vol. 344, Issue 3, pp. 827-33, (2006) (PubMed).



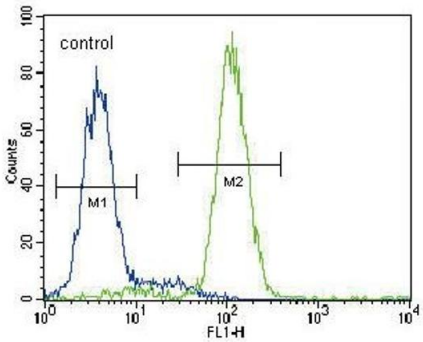
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. HMGCS2 Antibody (C-term) (ABIN390764 and ABIN2841022) IHC analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HMGCS2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of lysates from human pancreas, liver, testis and rat liver tissue lysate (from left to right), using HMGCS2 Antibody (C-term) (ABIN390764 and ABIN2841022). (ABIN390764 and ABIN2841022) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.



Flow Cytometry

Image 3. HMGCS2 Antibody (C-term) (ABIN390764 and ABIN2841022) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.