EMPOWER YOUR RESEARCH

## Product datasheet for TA351250

## HMGCS1 Rabbit Polyclonal Antibody

## Product data:

Product Type: Primary Antibodies
Applications:

IHC, WB

## Recommended Dilution: <br> WB: 500-2000

WB positive control: Human fetal liver tissue
IHC: 50-200
Positive control: Human gasrtic cancer
Predicted cell location: Cytoplasm
Reactivity: Human
Host: Rabbit
Isotype: IgG
Clonality: Polyclonal
Immunogen: Synthetic peptide of human HMGCS1
Formulation: pH7.4 PBS, 0.05\% NaN3, 40\% Glyceroln
Concentration: lot specific
Purification: Antigen affinity purification
Conjugation: Unconjugated
Storage:
Stability:
Predicted Protein Size:
Store at $-20^{\circ} \mathrm{C}$ as received.
Stable for 12 months from date of receipt.
57 kDa
Gene Name:
3-hydroxy-3-methylglutaryl-CoA synthase 1
Database Link:
NP 002121
Entrez Gene 3157 Human
Q01581

## Background:

Synonyms:
Protein Families:
Protein Pathways:

HMG-CoA Synthase exists as both a mitochondrial (mHMGCS) and cytoplasmic (cHMGCS) enzyme that condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA. The HMG-CoA produced by cHMGCS is transformed into mevalonate by HMG-CoA reductase, which starts isoprenoid biosynthesis. End products of the isoprenoid pathway include cholesterol, ubiquinone, dolichol, isopentenyl adenosine and farnesyl groups. mHMGCS, together with HMG-CoA Lyase, is responsible for ketone body biosynthesis. mHMGCS is expressed in liver and kidney. Fasting, cAMP and fatty acids increase the level of transcription of mHMGCS , while feeding and insulin repress it. A regulatory element within the mHMGCS promoter confers transcriptional regulation by PPAR, RXR, COUP-TF and HNF-4.

HMGCS
Druggable Genome
Butanoate metabolism, Metabolic pathways, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Valine, leucine and isoleucine degradation

## Product images:



Gel: 6\%SDS-PAGE
Lysate: $40 \mu \mathrm{~g}$
Lane: Human fetal liver tissue
Primary antibody: TA351250 (HMGCS1 Antibody) at dilution 1/300
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 30 seconds


Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA351250 (HMGCS1 Antibody) at dilution 1/40 (Original magnification: $\times 200$ )

Immunohistochemistry of paraffin-embedded Human gasttic cancer tissue using TA351250 (HMGCS1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: $\times 200$ )

Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA351250 (HMGCS1 Antibody) at dilution 1/40 (Original magnification: $\times 200$ )


Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA351250 (HMGCS1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: $\times 200$ )

