

Product datasheet for TA351250S

HMGCS1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: 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

Purification: Antigen affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 57 kDa

Gene Name: 3-hydroxy-3-methylglutaryl-CoA synthase 1

Database Link: NP 002121

Entrez Gene 3157 Human

Q01581

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Background:

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.

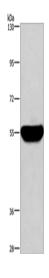
Synonyms: HMGCS

Protein Families: Druggable Genome

Protein Pathways: 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 µg

Lane: Human fetal liver tissue

Primary antibody: [TA351250] (HMGCS1

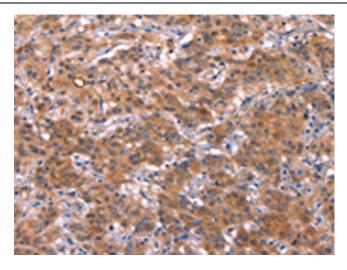
Antibody) at dilution 1/300

Secondary antibody: Goat anti rabbit IgG at

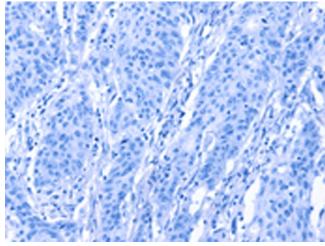
1/8000 dilution

Exposure time: 30 seconds

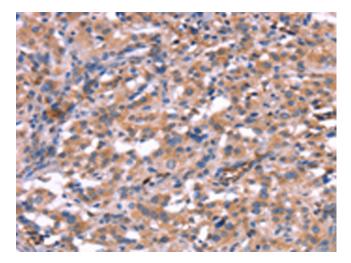




Immunohistochemistry of paraffin-embedded Human gasrtic cancer tissue using [TA351250] (HMGCS1 Antibody) at dilution 1/40 (Original magnification: ×200)

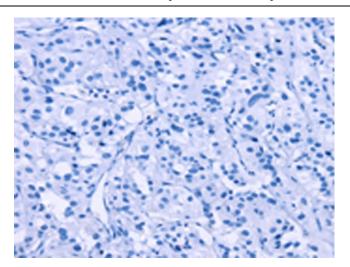


Immunohistochemistry of paraffin-embedded Human gasrtic cancer tissue using [TA351250] (HMGCS1 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: ×200)



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





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