

Product datasheet for TA351250

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: lgG **Clonality:** Polyclonal Immunogen: Synthetic peptide of human HMGCS1 pH7.4 PBS, 0.05% NaN3, 40% Glyceroln Formulation: Concentration: lot specific **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



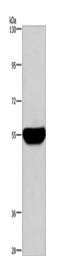
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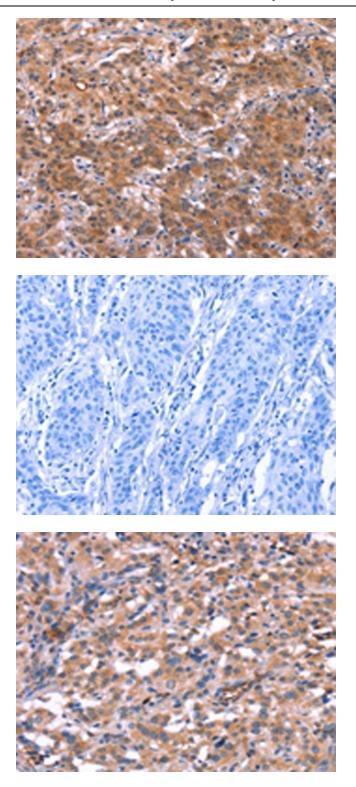
	HMGCS1 Rabbit Polyclonal Antibody – TA351250
Background:	HMG-CoA Synthase exists as both a mitochondrial (mHMGCS) and cytoplasmic (cHMGCS) enzyme that condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA. The HMG-CoA produced by cHMGCS is transformed into mevalonate by HMG-CoA reductase, which starts 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 Pathway	/s: 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

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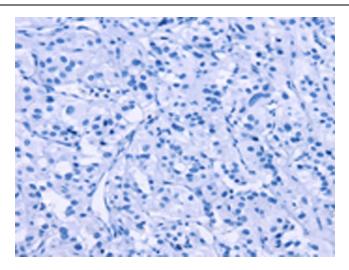


Immunohistochemistry of paraffin-embedded Human gasrtic cancer tissue using TA351250 (HMGCS1 Antibody) at dilution 1/40 (Original magnification: ×200)

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)

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

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