


Product datasheet

Anti-HMGCS2 antibody ab157225

1 Image

Overview

Product name	Anti-HMGCS2 antibody
Description	Rabbit polyclonal to HMGCS2
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Macaque monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide corresponding to Human HMGCS2 aa 450 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as ab157391)
Positive control	This antibody gave a positive signal in Human Liver tissue lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

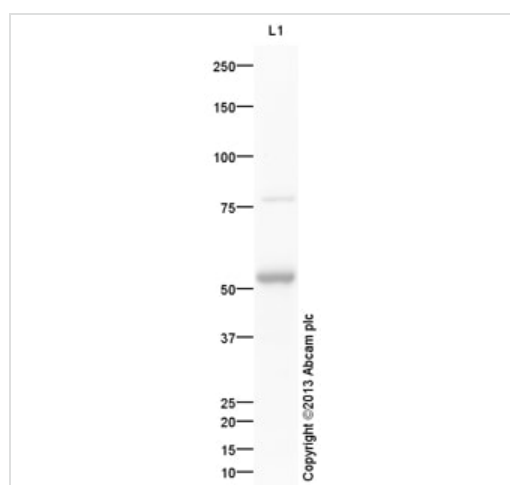
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab157225 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/250. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa).

Target

Function	This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase.
Tissue specificity	High expression in liver and colon. Low expression in testis, heart, skeletal muscle and kidney.
Pathway	Metabolic intermediate biosynthesis; (R)-mevalonate biosynthesis; (R)-mevalonate from acetyl-CoA: step 2/3.
Involvement in disease	Defects in HMGCS2 are the cause of HMG-CoA synthase deficiency (HMGCS deficiency) [MIM:605911]; also known as deficiency of mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase 2. Affected individuals present with severe hypoketotic hypoglycemia, mild hepatomegaly, or fatty liver, and a nondiagnostic pattern of urinary organic acids with increase of medium and short chain dicarboxylic acids.
Sequence similarities	Belongs to the HMG-CoA synthase family.
Cellular localization	Mitochondrion.

Images



Western blot - Anti-HMGCS2 antibody (ab157225)

Anti-HMGCS2 antibody (ab157225) at 1/250 dilution + Human liver tissue lysate - total protein (**ab29889**) at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 56 kDa

Observed band size: 56 kDa

Additional bands at: 77 kDa. We are unsure as to the identity of

these extra bands.

Exposure time: 10 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab157225 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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