

Datasheet for ABIN7265329
anti-HMGCS2 antibody (AA 269-508)[Go to Product page](#)

6 Images

Overview

Quantity:	100 µL
Target:	HMGCS2
Binding Specificity:	AA 269-508
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMGCS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	HMGCS2 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 269-508 of human HMGCS2 (NP_005509.1).
Sequence:	CYTSYRKKIQ NQWKQAGSDR PFTLDDLQYM IFHTPFCKMV QKSLARLMFN DFLSASSDTQ TSLYKGLEAF GGLKLEDITYT NKDLKALLK ASQDMFDKKT KASLYLSTHN GNMYTSSLYG CLASLLSHHS AQELAGSRIG AFSYGSGLAA SFFSFRVSQD AAPGSPLDKL VSSTSDDLPRK LASRKCVSPE EFTEIMNQRE QFYHKVNFSP PGDTNSLFPG TWYLERVDEQ HRRKYARRPV
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Product Details

Purification: Affinity purification

Target Details

Target: HMGCS2

Alternative Name: HMGCS2 ([HMGCS2 Products](#))

Background: The protein encoded by this gene 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. Mutations in this gene are associated with HMG-CoA synthase deficiency.

Alternatively spliced transcript variants encoding different isoforms have been found for this gene.,HMGCS2,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,Lipid Metabolism,Cholesterol Metabolism,Cardiovascular,Lipids,HMGCS2

Molecular Weight: 50kDa/52kDa/56kDa

Gene ID: 3158

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,1:500 - 1:2000,IHC,1:50 - 1:100,IF,1:50 - 1:100

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

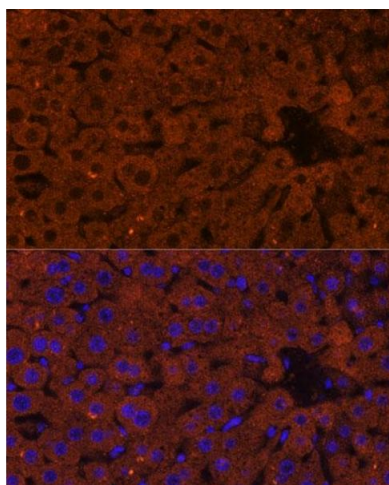
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

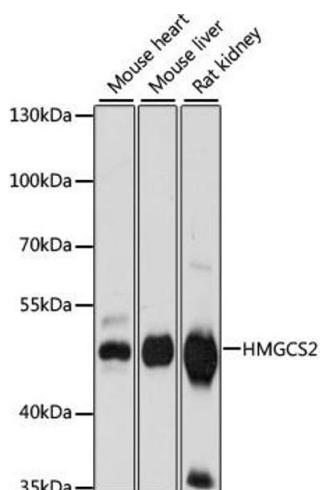
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



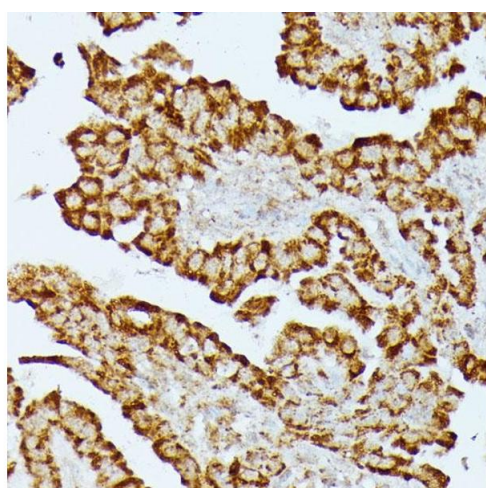
Immunofluorescence

Image 1. Immunofluorescence analysis of mouse liver using HMGCS2 Polyclonal Antibody (ABIN7265329) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using HMGCS2 antibody (ABIN7265329) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human thyroid cancer using HMGCS2 antibody (ABIN7265329) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7265329.