

## Rabbit HMGCS2 Polyclonal Antibody | anti-HMGCS2 antibody

HMGCS2 Polyclonal Antibody

|                              |                       |                                        |                                                                               |
|------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA30568</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry, Immunofluorescence</b> |
|------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|

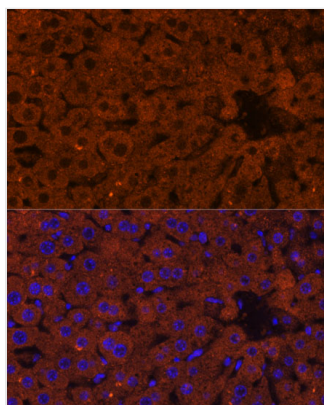
### PRODUCT SYNONYMS

HMGCS2; Polyclonal Antibody; HMGCS2 Polyclonal Antibody; anti-HMGCS2 antibody

### PRODUCT SPECIFICATIONS

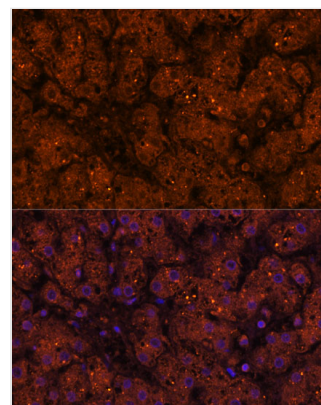
|                                                  |                                                                                                                                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                           |
| Reactivity                                       | Human, Mouse, Rat                                                                                                                                                                                                |
| Clonality                                        | Polyclonal                                                                                                                                                                                                       |
| Isotype                                          | IgG                                                                                                                                                                                                              |
| Purity/Purification                              | Affinity purification                                                                                                                                                                                            |
| Form/Format                                      | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH7.4, 150mM NaCl, 0.02% sodium azide and 81% glycerol.<br>PBS with 0.02% sodium azide, 50% glycerol, pH7.34 |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                                                                                                                           |
| Applicable Applications for anti-HMGCS2 antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)                                                                                                                                           |
| Application Notes                                | WB: 1:500-1:2000<br>IHC: 1:50-1:100<br>IF: 1:50-1:100                                                                                                                                                            |
| Immunogen                                        | Recombinant fusion protein of human HMGCS2 (NP_005509.1)                                                                                                                                                         |
| Preparation and Storage                          | Store at -20 degree C. Avoid freeze/thaw cycles.                                                                                                                                                                 |

### IMAGES



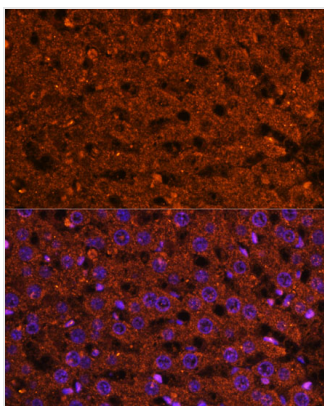
#### IF (Immunofluorescence)

Immunofluorescence analysis of mouse liver using HMGCS2 Polyclonal Antibody at dilution of 1:100 . Blue: DAPI for nuclear staining.



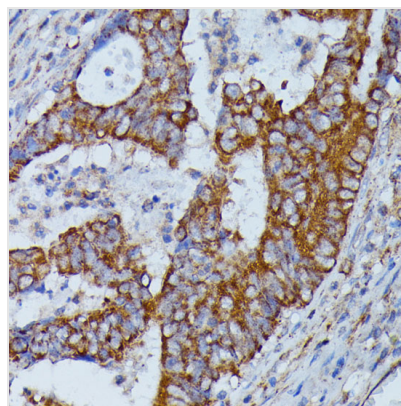
#### IF (Immunofluorescence)

Immunofluorescence analysis of human liver using HMGCS2 Polyclonal Antibody at dilution of 1:100 . Blue: DAPI for nuclear staining.



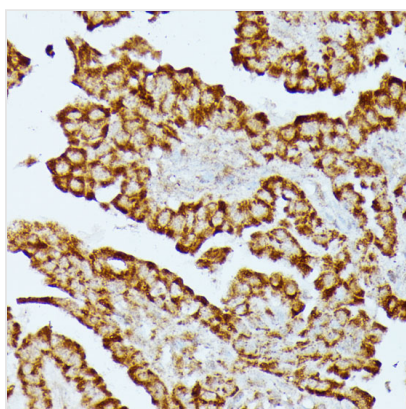
#### IF (Immunofluorescence)

Immunofluorescence analysis of rat liver using HMGCS2 Polyclonal Antibody at dilution of 1:100 . Blue: DAPI for nuclear staining.



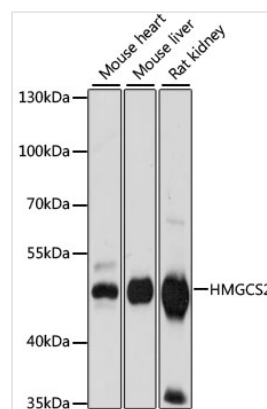
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon carcinoma using HMGCS2 antibody at dilution of 1:100 .



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human thyroid cancer using HMGCS2 antibody at dilution of 1:100 .



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using HMGCS2 antibody at 1:1000 dilution.

## ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-HMGCS2 antibody</b> | 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. |
| <b>Product Categories/Family for anti-HMGCS2 antibody</b>   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                             |
|-----------------------------------------|-------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 5031751                                                     |
| <b>NCBI GeneID</b>                      | 3158                                                        |
| <b>NCBI Accession #</b>                 | NP_005509.1                                                 |
| <b>NCBI GenBank Nucleotide #</b>        | NM_005518.3                                                 |
| <b>UniProt Accession #</b>              | P54868; Q5SZU2; Q6IBF4; B7Z8R3; D3Y5K6                      |
| <b>Molecular Weight</b>                 | 50,050 Da                                                   |
| <b>NCBI Official Full Name</b>          | hydroxymethylglutaryl-CoA synthase, mitochondrial isoform 1 |
| <b>NCBI Official Synonym Full Names</b> | 3-hydroxy-3-methylglutaryl-CoA synthase 2 (mitochondrial)   |

|                                   |                                                                                                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI Official Symbol</b>       | HMGCS2                                                                                                                                |
| <b>NCBI Protein Information</b>   | hydroxymethylglutaryl-CoA synthase, mitochondrial; HMG-CoA synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial) |
| <b>UniProt Protein Name</b>       | Hydroxymethylglutaryl-CoA synthase, mitochondrial                                                                                     |
| <b>UniProt Gene Name</b>          | <b>HMGCS2</b>                                                                                                                         |
| <b>UniProt Synonym Gene Names</b> | HMG-CoA synthase                                                                                                                      |
| <b>UniProt Entry Name</b>         | HMCS2_HUMAN                                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hmgcs2-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/30568>