For Research Use Only

HMGCS1
Polyclonal ANTIBODY

Catalog Number: 17643-1-AP

Basic Information

Catalog Number: 17643-1-AP
Size: 30 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification

GenBank Accession Number: BC060514
GeneID (NCBI): 3157
Full Name: 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)
Calculated MW: 520aa, 57 kDa
Observed MW: 57 kDa

Recommended Dilutions:
WB: 1:500-1:1000
IP: 0.5-4.0 μg for IP and 1:100-1:2000 for WB
IF: 1:10-1:100

Applications

Tested Applications:
IF, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Positive Controls:
WB: A431 cells, mouse liver tissue, HepG2 cells
IP: mouse liver tissue;
IF: HepG2 cells;

Background Information

HMGCS1 (Hydroxymethylglutaryl-CoA synthase, cytoplasmic) is also named as HMGCS and belongs to the HMG-CoA synthase family. The gene encodes a 520 amino acid protein which catalyzes the condensation of acetyl-CoA and acetoacetyl-CoA into 3-hydroxy-3-methylglutaryl-CoA and participates in the mevalonate pathway but its end product is cholesterol (PMID:20346956). The human and hamster enzymes are distinguished by differential inhibition by magnesium ion (PMID:2870496).

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catherine I Real</td>
<td>24513310</td>
<td>Antiviral Res</td>
<td>WB</td>
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<tr>
<td>Deshi Dong</td>
<td>25310017</td>
<td>Food Funct</td>
<td>WB</td>
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<td>Saraon Punit P</td>
<td>23443136</td>
<td>Mol Cell Proteomics</td>
<td>WB</td>
</tr>
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Storage

Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage.

For technical support and original validation data for this product please contact:
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

www.ptglab.com
**Selected Validation Data**

- **WB result of HMGCS1 antibody (17643-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HMGCS1 transfected HepG2 cells**

- **Immunofluorescent analysis of HepG2 cells, using HMGCS1 antibody 17643-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).**

- **IP Result of anti-HMGCS1 (IP: 17643-1-AP, 3ug; Detection: 17643-1-AP 1:1000) with mouse liver tissue lysate 4000ug.**