

For Research Use Only

# HMGCS1 Polyclonal antibody

Catalog Number: 17643-1-AP

Featured Product

45 Publications



## Basic Information

### Catalog Number:

17643-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG11825

### GenBank Accession Number:

BC083514

### GeneID (NCBI):

3157

### UNIPROT ID:

Q01581

### Full Name:

3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)

### Calculated MW:

520 aa, 57 kDa

### Observed MW:

57 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:1000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:300-1:1200

IF/ICC: 1:400-1:1600

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB: A431 cells, A549 cells, HepG2 cells, LNCaP cells, mouse liver tissue

IP: mouse liver tissue,

IHC: human ovary cancer tissue,

IF/ICC: HepG2 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

HMGC1(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

Author	Pubmed ID	Journal	Application
Jiang-Yun Peng	36307901	Adv Sci (Weinh)	WB
Feng Zhao	34803510	Int J Biol Sci	WB
Catherine I Real	24513310	Antiviral Res	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

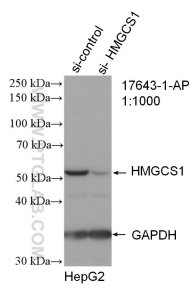
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

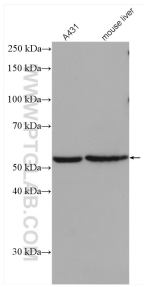
E: proteintech@ptglab.com  
W: ptglab.com

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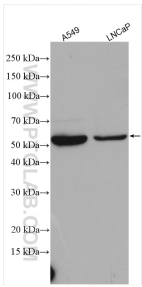
Selected Validation Data



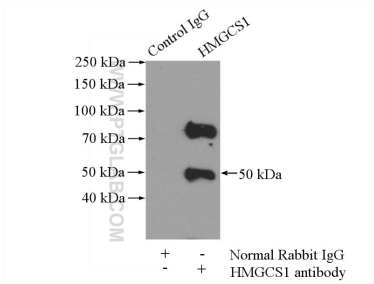
WB result of HMGCS1 antibody (17643-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HMGCS1 transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 17643-1-AP (HMGCS1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



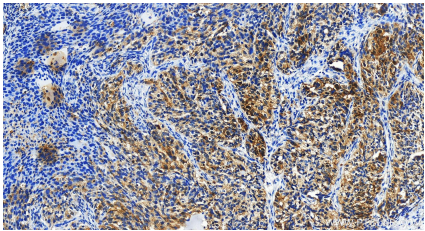
Various lysates were subjected to SDS PAGE followed by western blot with 17643-1-AP (HMGCS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HMGCS1 antibody (17643-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 17643-1-AP (HMGCS1 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).