

For Research Use Only

# HMGCS1 Polyclonal antibody

Catalog Number: 17643-1-AP

Featured Product

49 Publications



## Basic Information

Catalog Number:

17643-1-AP

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

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

Positive Controls:

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

IP : HepG2 cells,

IHC : human ovary cancer tissue,

IF/ICC : HepG2 cells,

## 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

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

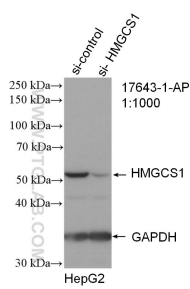
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

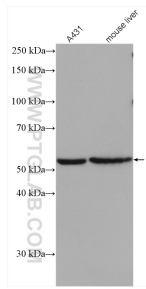
W: [ptgcn.com](http://ptgcn.com)

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

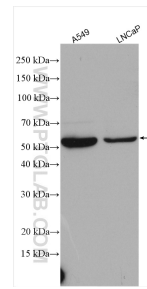
Selected Validation Data



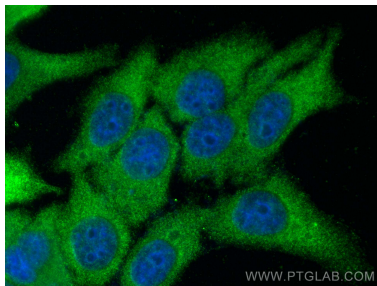
WB result of HMGCS1 antibody (17643-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HMGCS1 transfected HepG2 cells.



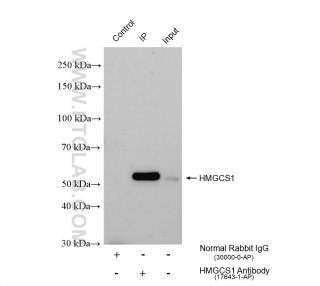
Various lysates were subjected to SDS PAGE followed by western blot with 17643-1-AP (HMGCS1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



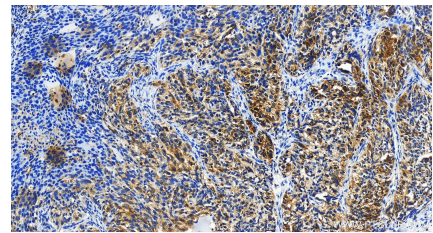
Various lysates were subjected to SDS PAGE followed by western blot with 17643-1-AP (HMGCS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).



IP result of anti-HMGCS1 (IP:17643-1-AP, 4ug; Detection:17643-1-AP 1:3000) with HepG2 cells lysate 1480 ug.



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).