10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HMGCS1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6652c

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	Q01581
Other Accession	P17425, Q8JZK9, P13704, P23228
Reactivity	Human, Rat, Mouse
Predicted	Chicken, Hamster, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57294
Antigen Region	290-317

Additional Information

Gene ID	3157
Other Names	Hydroxymethylglutaryl-CoA synthase, cytoplasmic, HMG-CoA synthase, 3-hydroxy-3-methylglutaryl coenzyme A synthase, HMGCS1, HMGCS
Target/Specificity	This HMGCS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 290-317 amino acids from the Central region of human HMGCS1.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HMGCS1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HMGCS1 (HGNC:5007)
Synonyms	HMGCS

Function	Catalyzes the condensation of acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is converted by HMG-CoA reductase (HMGCR) into mevalonate, a precursor for cholesterol synthesis.
Cellular Location	Cytoplasm.
Tissue Location	Highly expressed in the cerebral cortex.

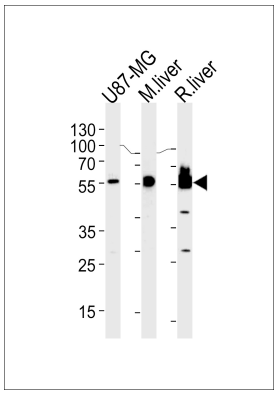
Background

HMGCS1 condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase.

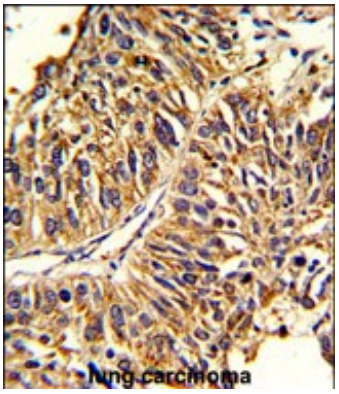
References

Vock,C., Cell. Physiol. Biochem. 22 (5-6), 515-524 (2008)

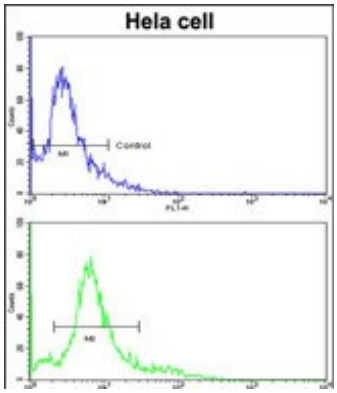
Images



HMGCS1 Antibody (Center) (Cat. #AP6652c) western blot analysis in U87-MG cell line,mouse liver and rat liver lysates (35ug/lane).This demonstrates the HMGCS1 antibody detected the HMGCS1 protein (arrow).



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with HMGCS1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of hela cells using HMGCS1 Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Citations

- CYP51A1 induced by growth differentiation factor 9 and follicle-stimulating hormone in granulosa cells is a possible predictor for unfertilization.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.