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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
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.

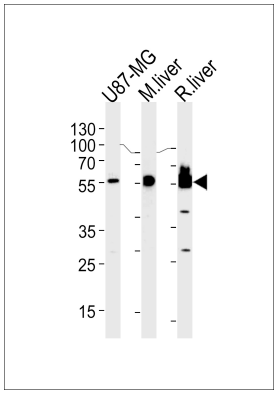
Background

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

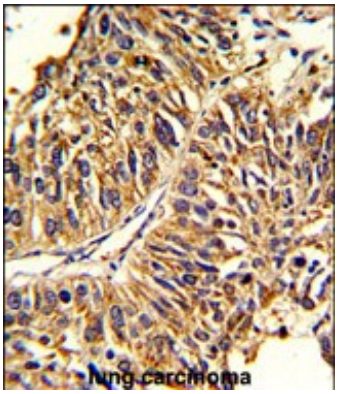
References

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

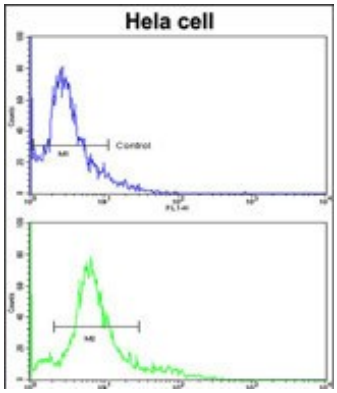
Images



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.