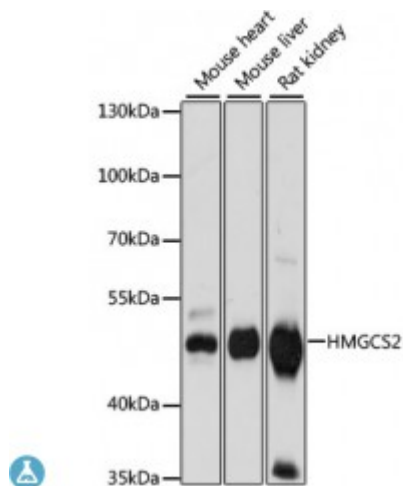


Anti-HMGCS2 Antibody



Description

The protein encoded by this gene belongs to the HMG-CoA synthase family. It is a mitochondrial enzyme that catalyzes the first reaction of ketogenesis, a metabolic pathway that provides lipid-derived energy for various organs during times of carbohydrate deprivation, such as fasting. Mutations in this gene are associated with HMG-CoA synthase deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Model	STJ116457
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 269-508 of human HMGCS2 (NP_005509.1).
Gene ID	3158
Gene Symbol	HMGCS2
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Expression in liver is 200-fold higher than in any other tissue, Low expression in colon, kidney, testis, and pancreas, Very low expression in heart and skeletal muscle, Not detected in brain, The relative expression of isoform 3 (at mRNA level) is highest in heart (70%) and skeletal muscle (60%)
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Hydroxymethylglutaryl-CoA synthase mitochondrial HMG-CoA synthase
Molecular Weight	56.635 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:5008OMIM:600234Reactome:R-HSA-1989781
Alternative Names	Hydroxymethylglutaryl-CoA synthase mitochondrial HMG-CoA synthase
Function	This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase
Cellular Localization	Mitochondrion
Post-translational Modifications	Succinylated, Desuccinylated by SIRT5, Succinylation, at least at Lys-83 and Lys-310, inhibits the enzymatic activity,

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