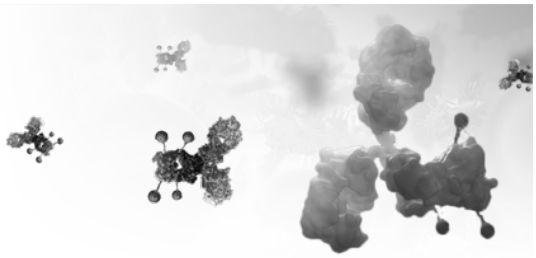

Mouse anti-Human HMGCL polyclonal antibody (DPAB-DC1571)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene belongs to the HMG-CoA lyase family. It is a mitochondrial enzyme that catalyzes the final step of leucine degradation and plays a key role in ketone body formation. Mutations in this gene are associated with HMG-CoA lyase deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Immunogen	HMGCL (AAH10570, 1 a.a. ~ 325 a.a) full-length recombinant protein with GST tag. The sequence is MAAMRKALPRRLVGLASLRAVSTSSMGTLPKRVKIVEVGPRDGLQNEKNIVSTPVKIKLI DMLSEAGLSVIETTSFVSPKWVPQMGDHTEVLKGIQKFPGINYPVLTPNLKGFEAAVAAG AKEVVIFGAASELFTKKNINCSIEESFQRFDAILKAAQSANISVRGYVSCALGCPYEGKI SPAKVAEVTKKFYSMGCYEISLGDTIGVGTPGIMKDMLSAVMQEVPLAALAVHCHDTYGQ ALANTLMALQMGVSVVDSSVAGLGGCPYAQGASGNLATEDLVYMLEGLGIHTGVNLQKLL EAGNFICQALNRKTSSKVAQATCKL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	HMGCL 3-hydroxymethyl-3-methylglutaryl-CoA lyase [Homo sapiens (human)]
Official Symbol	HMGCL
Synonyms	HMGCL; 3-hydroxymethyl-3-methylglutaryl-CoA lyase; HL; hydroxymethylglutaryl-CoA lyase, mitochondrial; HMG-CoA lyase; hydroxymethylglutaricaciduria; 3-hydroxy-3-methylglutaryl-CoA lyase; 3-hydroxy-3-methylglutarate-CoA lyase; 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase; mitochondrial 3-hydroxy-3-methylglutaryl-CoA lyase;
Entrez Gene ID	3155
Protein Refseq	NP_000182
UniProt ID	P35914
Chromosome Location	1p36.1-p35
Pathway	Butanoate metabolism; Fatty acid, triacylglycerol, and ketone body metabolism; Leucine degradation, leucine => Leucine degradation, leucine =>
Function	carboxylic acid binding; fatty-acyl-CoA binding; hydroxymethylglutaryl-CoA lyase activity; magnesium ion binding

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