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# HMGCL Antibody (N-term)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP18139a**

## Specification

### HMGCL Antibody (N-term) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | P35914 |
| Other Accession | NP_000182.2 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **34360** |
| Antigen Region | **71-99** |

### HMGCL Antibody (N-term) - Additional Information

**Gene ID** 3155

**Other Names**
Hydroxymethylglutaryl-CoA lyase, mitochondrial, HL, HMG-CoA lyase, 3-hydroxy-3-methylglutarate-CoA lyase, HMGCL

**Target/Specificity**
This HMGCL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-99 amino acids from the N-terminal region of human HMGCL.

**Dilution**
WB~~1:1000

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**
HMGCL Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### HMGCL Antibody (N-term) - Protein Information

**Name** HMGCL

**Function** Mitochondrial 3-hydroxymethyl-3-methylglutaryl-CoA lyase that catalyzes a

cation-dependent cleavage of (S)-3-hydroxy-3- methylglutaryl-CoA into acetyl-CoA and acetoacetate, a key step in ketogenesis. Terminal step in leucine catabolism. Ketone bodies (beta-hydroxybutyrate, acetoacetate and acetone) are essential as an alternative source of energy to glucose, as lipid precursors and as regulators of metabolism.

**Cellular Location**
Mitochondrion matrix {ECO:0000250|UniProtKB:P38060}. Peroxisome {ECO:0000250|UniProtKB:P38060}. Note=Unprocessed form is peroxisomal {ECO:0000250|UniProtKB:P38060}

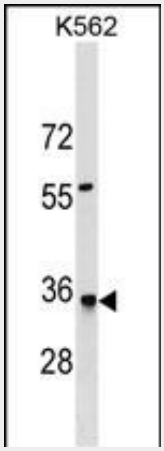
**Tissue Location**
Highest expression in liver. Expressed in pancreas, kidney, intestine, testis, fibroblasts and lymphoblasts. Very low expression in brain and skeletal muscle. The relative expression of isoform 2 (at mRNA level) is highest in heart (30%), skeletal muscle (22%), and brain (14%).

## HMGCL Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## HMGCL Antibody (N-term) - Images




HMGCL Antibody (N-term) (Cat. #AP18139a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the HMGCL antibody detected the HMGCL protein (arrow).

## HMGCL Antibody (N-term) - Background

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. [provided by RefSeq].

**HMGCL Antibody (N-term) - References**

Fu, Z., et al. J. Biol. Chem. 285(34):26341-26349(2010)
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Menao, S., et al. Hum. Mutat. 30 (3), E520-E529 (2009) :
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