

# HMGCL Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant HMGCL.

Catalog # AT2388a

## Product Information

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|                   |                          |
|-------------------|--------------------------|
| Application       | WB                       |
| Primary Accession | <a href="#">P35914</a>   |
| Other Accession   | <a href="#">BC010570</a> |
| Reactivity        | Human                    |
| Host              | mouse                    |
| Clonality         | monoclonal               |
| Isotype           | IgG2a kappa              |
| Clone Names       | 4F4-D1                   |
| Calculated MW     | 34360                    |

## Additional Information

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|                    |   |
|--------------------|---|
| Gene ID            | 3155  |
| Other Names        | Hydroxymethylglutaryl-CoA lyase, mitochondrial, HL, HMG-CoA lyase, 3-hydroxy-3-methylglutarate-CoA lyase, HMGCL     |
| Target/Specificity | HMGCL (AAH10570, 1 a.a. ~ 325 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Dilution           | WB~~1:500~1000  |
| Format             | Clear, colorless solution in phosphate buffered saline, pH 7.2 .  |
| Storage            | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.  |
| Precautions        | HMGCL Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Background

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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.

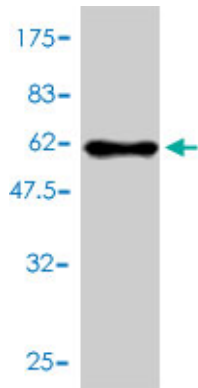
## References

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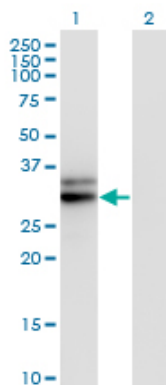
1.Characterization of a novel HMG-CoA Lyase enzyme with a dual location in endoplasmic reticulum and cytosol.Arnedo M, Menao S, Puisac B, Teresa-Rodrigo ME, Gil-Rodriguez MC, Lopez-Vinas E, Gomez-Puertas

P, Casals N, Casale CH, Hegardt FG, Pie J.J Lipid Res. 2012 Jul 30;53(7):1152-60. Differential HMG-CoA lyase expression in human tissues provides clues about 3-hydroxy-3-methylglutaric aciduria. Puisac B, Arnedo M, Casale CH, Ribate MP, Castiella T, Ramos FJ, Ribes A, Perez-Cerda C, Casals N, Hegardt FG, Pie J.J Inherit Metab Dis. 2010 Aug;33(4):405-10. Epub 2010 Jun 8.

## Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (61.49 KDa) .



Western Blot analysis of HMGCL expression in transfected 293T cell line by HMGCL monoclonal antibody (M01), clone 4F4-D1.

Lane 1: HMGCL transfected lysate (34.4 KDa).

Lane 2: Non-transfected lysate.

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