



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# HMGCR (m2): 293T Lysate: sc-120842

## BACKGROUND

The human enzyme hydroxy-3-methylglutaryl coenzyme A reductase (HMGCR) limits the rate of cholesterol synthesis, a necessary process for cellular growth, in liver tissue. Phosphorylation of HMGCR inactivates the enzyme, which occurs via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from the product of the reductase reaction. Inhibitors of HMGCR (statins) exert anti-inflammatory effects and decrease the frequency of cardiovascular events by lowering plasma cholesterol. Additionally, intermediate products along the pathway catalyzed by HMGCR, which modulate signal transducing proteins such as Ras, provide possible ties between HMGCR regulation and new chemotherapeutic methods.

## REFERENCES

1. Luskey, K.L. and Stevens B. 1985. Human 3-hydroxy-methylglutaryl coenzyme A reductase. *J. Biol. Chem.* 260: 10271-10277.
2. Duhamel-Clerin, E., Villarroja, H., Mehtali, M., Lapie, P., Besnard, F., Gumpel, M. and Lachapelle, F. 1994. Cellular expression of an HMGCR promoter-CAT fusion gene in transgenic mouse brain: evidence for a developmental regulation in oligodendrocytes. *Glia* 11: 35-46.
3. Zager, R.A., Shah, V.O., Shah, H.V., Zager, P.G., Johnson, A.C. and Hanson, S. 2002. The mevalonate pathway during acute tubular injury: selected determinants and consequences. *Am. J. Pathol.* 161: 681-692.
4. Viedt, C., Shen, W., Fei, J., Kamimura, M., Hänsch, G.M., Katus, H.A. and Kreuzer, J. 2003. HMG-CoA reductase inhibition reduces the pro-inflammatory activation of human vascular smooth muscle cells by the terminal complement factor C5b-9. *Basic Res. Cardiol.* 98: 353-361.
5. Wassmann, S., Faul, A., Hennen, B., Scheller, B., Böhm, M. and Nickenig, G.I. 2003. Rapid effect of 3-hydroxy-3-methylglutaryl coenzyme a reductase inhibition on coronary endothelial function. *Circ. Res.* 93: 98-103.
6. Singh, R.P., Kumar, R. and Kapur, N. 2003. Molecular regulation of cholesterol biosynthesis: implications in carcinogenesis. *J. Environ. Pathol. Toxicol. Oncol.* 22: 75-92.

## CHROMOSOMAL LOCATION

Genetic locus: *Hmgcr* (mouse) mapping to 13 D1.

## PRODUCT

HMGCRC (m2): 293T Lysate represents a lysate of mouse HMGCR transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

HMGCRC (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive HMGCR antibodies. Recommended use: 10-20 µl per lane.

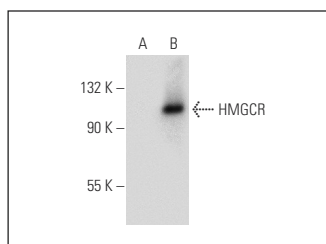
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

HMGCRC (C-1): sc-271595 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse HMGCR expression in HMGCR transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

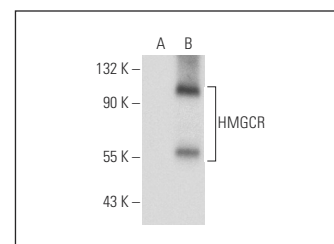
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



HMGCRC (C-1): sc-271595. Western blot analysis of HMGCR expression in non-transfected: sc-117752 (A) and mouse HMGCR transfected: sc-120842 (B) 293T whole cell lysates.



HMGCRC (C-1): sc-271595. Western blot analysis of HMGCR expression in non-transfected: sc-117752 (A) and mouse HMGCR transfected: sc-120842 (B) 293T whole cell lysates.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.