bsm-52822R **[Primary Antibody]**

HMGCR Recombinant Rabbit mAb

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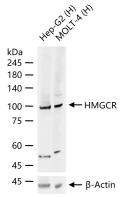
DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 7C5
GeneID: 3156
SWISS: P04035
Target: HMGCR
Immunogen: A synthesized peptide derived from human HMGCR: 400-500.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: HMG-CoA reductase is the rate-limiting enzyme for cholesterol synthesis and is regulated via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from mevalonate, the product of the reaction catalyzed by reductase. Normally in mammalian cells this enzyme is suppressed by cholesterol derived from the internalization and degradation of low density lipoprotein (LDL) via the LDL receptor. Competitive inhibitors of the reductase induce the expression of LDL receptors in the liver, which in turn increases the catabolism of plasma LDL and lowers the plasma concentration of cholesterol, an important determinant of atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

Applications: **WB** (1:500-2000)
Reactivity: Human
Predicted MW.: 97 kDa
Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with HMGCR monoclonal antibody, unconjugated (bsm-52822R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=10]** Dongyan Shao. et al. Construction and Mechanism of IL-15-based Co-Activated Polymeric Micelles for NK Cell Immunotherapy. ADV HEALTHC MATER. 2023 Oct;:2302589 WB ;Human. 37897328
- **[IF=7.422]** Han Zeng. et al. CD36 promotes de novo lipogenesis in hepatocytes through INSIG2-dependent SREBP1 processing. Mol Metab. 2021 Dec;:101428 WB,IP ;Mouse,Human. 34974159
- **[IF=6.317]** Mubai Sun. et al. Black bean husk and black rice anthocyanin extracts modulated gut microbiota and serum metabolites for improvement in type 2 diabetic rats. FOOD FUNCT. 2022 Jun;: WB ;Rat. 35730792
- **[IF=4.5]** Man-Yu Xiao. et al. Gypenoside L inhibits hepatocellular carcinoma by targeting the SREBP2-HMGCS1 axis and enhancing immune response. BIOORG CHEM. 2024 Sep;150:107539 WB ;Mouse,Human. 38861912

- **[IF=4.9]** Xingtong Chen. et al.Animal Model Screening for Hyperlipidemic ICR Mice..INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES.2025 Feb 27;26(5):2142. Western blot ;Mouse. 40076768