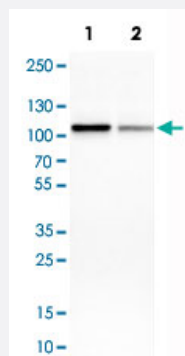


# HMGCR monoclonal antibody, clone CL0260

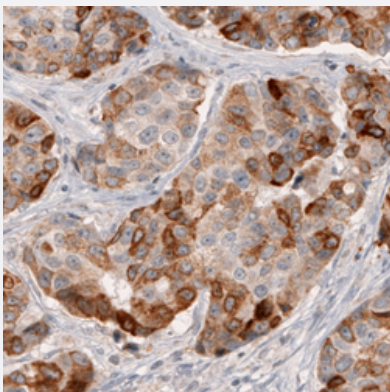
Catalog # MAB15580      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western Blot analysis of Lane 1: MCF-7 and Lane 2: HepG2 cell lysates with HMGCR monoclonal antibody, clone CL0260 (Cat # MAB15580).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with HMGCR monoclonal antibody, clone CL0260 (Cat # MAB15580) shows moderate to strong cytoplasmic immunoreactivity in tumor cells.

## Specification

|                            |                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b> | Mouse monoclonal antibody raised against partial recombinant human HMGCR.                                                              |
| <b>Immunogen</b>           | Recombinant protein corresponding to human HMGCR.                                                                                      |
| <b>Epitope</b>             | This antibody binds to an epitope located within the peptide sequence TLMETHERGVSIIRQ as determined by overlapping synthetic peptides. |

|                     |                                                                                                                                                                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sequence            | GAKFLSDAEIIQLVNAKHIPAYKLETLMETHERGVSIIRQLLSKKLSEPSSLQYLPYRDYNYSLVMG<br>ACCENVIGYMPIVGVAGPLCLDEKEFQVPMATTEGCLVASTNRGCRAIGLGGGASSRVLADGM<br>TRGPVVRLPRACDSAIEVKAWLETSEGFVAVIKEAFDSTSRFARLQKLHTSIAGRNLIRFQSRSGDA<br>MGMNMISKGTAKSLHEYFPEMQLAVSGNYCTDKKPAAINWIEGRGKSVVCEAVIPAKVVREV<br>LKTTT |
| Host                | Mouse                                                                                                                                                                                                                                                                                    |
| Reactivity          | Human                                                                                                                                                                                                                                                                                    |
| Form                | Liquid                                                                                                                                                                                                                                                                                   |
| Purification        | Protein A purification                                                                                                                                                                                                                                                                   |
| Isotype             | IgG1                                                                                                                                                                                                                                                                                     |
| Recommend Usage     | Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user.                                                                                                   |
| Storage Buffer      | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).                                                                                                                                                                                                                                       |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                   |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                                                                                   |

## Applications

- Western Blot (Cell lysate)

Western Blot analysis of Lane 1: MCF-7 and Lane 2: HepG2 cell lysates with HMGR monoclonal antibody, clone CL0260 (Cat # MAB15580).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with HMGR monoclonal antibody, clone CL0260 (Cat # MAB15580) shows moderate to strong cytoplasmic immunoreactivity in tumor cells.

## Gene Info — HMGR

|                    |                        |
|--------------------|------------------------|
| Entrez GeneID      | <a href="#">3156</a>   |
| Protein Accession# | <a href="#">P04035</a> |
| Gene Name          | HMGR                   |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Alias         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Description   | 3-hydroxy-3-methylglutaryl-Coenzyme A reductase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Omim ID            | <a href="#">142910</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Summary       | 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] |
| Other Designations | 3-hydroxy-3-methylglutaryl CoA reductase (NADPH) hydroxymethylglutaryl-CoA reductase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Pathway

- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Metabolic pathways](#)
- [Terpenoid backbone biosynthesis](#)

## Disease

- [Acute Disease](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cognition Disorders](#)

- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Diseases in Twins](#)
- [Drug Toxicity](#)
- [Ductus Arteriosus](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Infant](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Polycystic Ovary Syndrome](#)
- [Pulmonary Disease](#)

- [Stroke](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)