

Anti-HMGCR Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

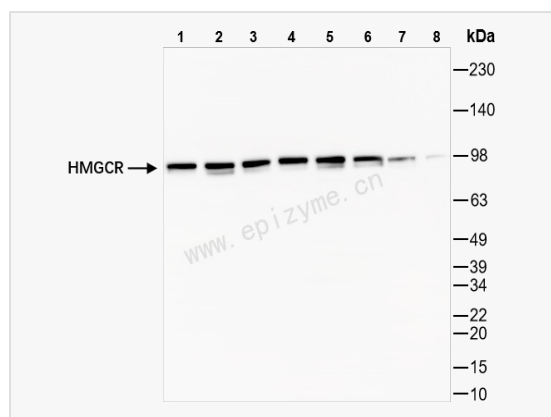
Catalog # R010501

Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	93L33K48
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human HMGCR
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-HMGCR Rabbit mAb [93L33K48] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	3 hydroxy 3 methylglutaryl CoA reductase; 3 hydroxy 3 methylglutaryl Coenzyme A reductase; 3 hydroxymethylglutaryl CoA reductase; 3-hydroxy-3-methylglutaryl CoA reductase (NADPH); 3-hydroxy-3-methylglutaryl-coenzyme A reductase; 3H3M; HMDH_HUMAN; HMG CoA reductase; HMG CoAR; HMG-CoA reductase; Hmgcr; Hydroxymethylglutaryl CoA reductase; LDLQC3; MGC103269; Red.
Calculated MW	Calculated MW: 97 kDa; Observed MW: 97 kDa
Uniprot ID	P04035
Gene ID	3156
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, Aug 2008]
Cellular Location	Endoplasmic reticulum membrane. Peroxisome membrane.



Western Blot - Anti-HMGCR Rabbit mAb [93L33K48]

All lanes: R010501 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: 293T (Human embryonic kidney cell) whole cell lysates

Lane 5: K562 (Human chronic myeloid leukemia cell) whole cell lysates

Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 8: Rat brain whole tissue lysates

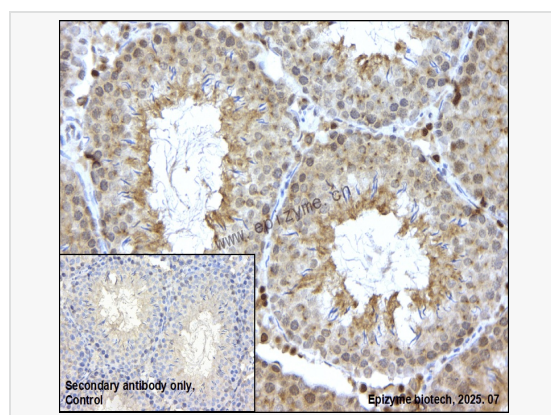
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 97 kDa

Observed band size: 97 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-HMGCR Rabbit mAb [93L33K48]

Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R010501 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.