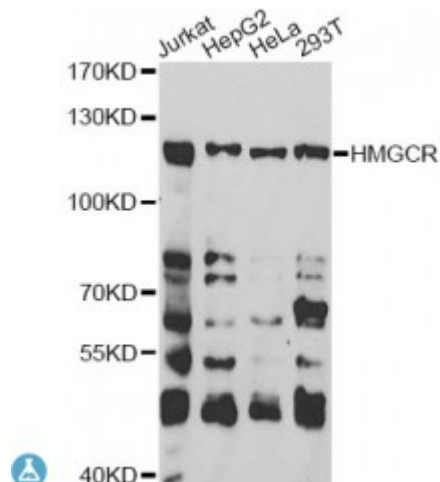


Anti-HMGCR Antibody



Description

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.

Model	STJ115278
Host	Rabbit
Reactivity	Human, Rat
Applications	IF, IHC, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 629-888 of human HMGCR (NP_000850.1).
Gene ID	3156
Gene Symbol	HMGCR
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200
Purification	Affinity purification

Note	For Research Use Only (RUO).
Protein Name	3-hydroxy-3-methylglutaryl-coenzyme A reductase HMG-CoA reductase
Molecular Weight	97.476 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:5006OMIM:142910Reactome:R-HSA-191273
Alternative Names	3-hydroxy-3-methylglutaryl-coenzyme A reductase HMG-CoA reductase
Function	Transmembrane glycoprotein that is the rate-limiting enzyme in cholesterol biosynthesis as well as in the biosynthesis of nonsterol isoprenoids that are essential for normal cell function including ubiquinone and geranylgeranyl proteins
Cellular Localization	Endoplasmic reticulum membrane
Post-translational Modifications	N-glycosylated, Deglycosylated by NGLY1 on release from the endoplasmic reticulum (ER) in a sterol-mediated manner,

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