

HMGCS1 (D5W8F) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 57	Source/Isotype: Rabbit IgG	UniProt ID: #Q01581	Entrez-Gene Id: 3157
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Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	HMGC1 (D5W8F) Rabbit mAb recognizes endogenous levels of total HMGC1 protein. This antibody does not cross-react with HMGC2 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human HMGC1 protein.	
Background	Cytoplasmic 3-hydroxy-3-methylglutaryl-CoA synthase (HMGC1) catalyzes the first committed step of mevalonate pathway essential for cholesterol biosynthesis (1). <i>HMGC1</i> transcription is regulated by sterol levels (2). Studies showed that miR-223 reduces cholesterol biosynthesis by inhibiting HMGC1 and methylsterol monooxygenase 1 (3). In addition, activation of the EGFR family member ERBB4 induces the expression of SREBP-regulated genes (including <i>HMGC1</i>) involved in cholesterol biosynthesis, suggesting a role of this enzyme in the metabolic re-programming in ERBB4-driven cancers (4).	
Background References	<ol style="list-style-type: none"> Sapir, A. et al. (2014) <i>Proc Natl Acad Sci U S A</i> 111, E3880-9. Smith, J.R. et al. (1988) <i>J Biol Chem</i> 263, 18480-7. Vickers, K.C. et al. (2014) <i>Proc Natl Acad Sci U S A</i> 111, 14518-23. Haskins, J.W. et al. (2015) <i>Sci Signal</i> 8, ra111. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human Mk: Monkey
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