

Product datasheet for **TA350050**

HMGCR Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Mouse brain tissue lysate IHC: 50-100 Positive control: Human esophagus cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human HMGCR
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	3-hydroxy-3-methylglutaryl-CoA reductase
Database Link:	NP_000850 Entrez Gene 15357 MouseEntrez Gene 25675 RatEntrez Gene 3156 Human P04035



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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.

Synonyms:

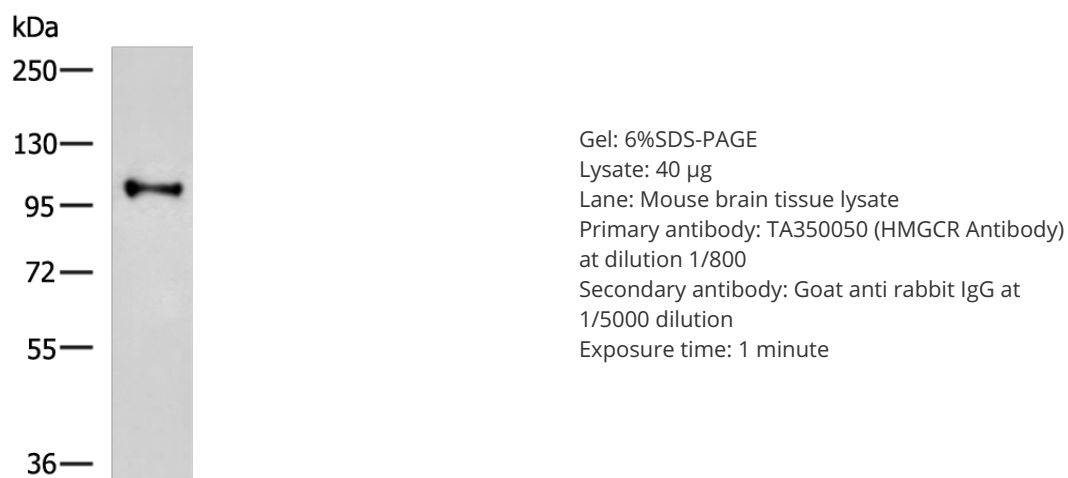
LDLCQ3

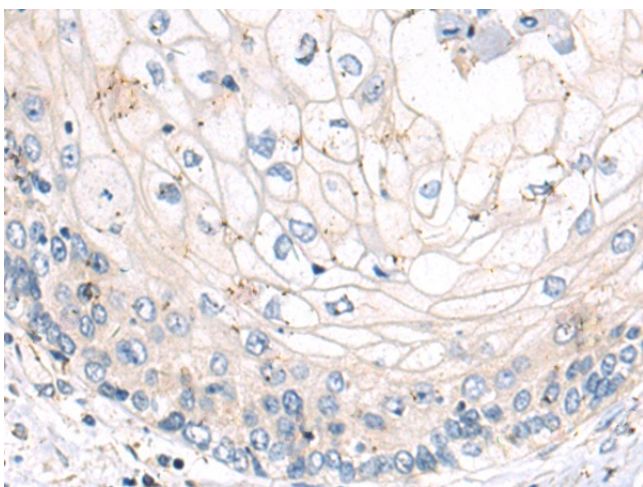
Protein Families:

Druggable Genome, Transmembrane

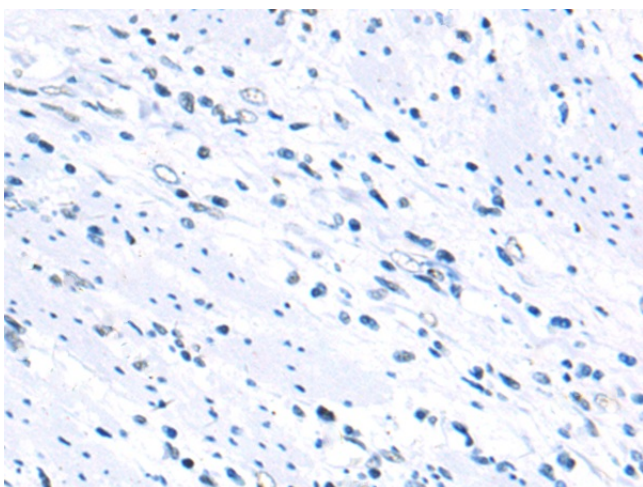
Protein Pathways:

Metabolic pathways, Terpenoid backbone biosynthesis

Product images:



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA350050 (HMGR Antibody) at dilution 1/50 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA350050 (HMGR Antibody) at dilution 1/50, treated with fusion protein. (Original magnification: $\times 200$)