(KO Validated) HMGCR Polyclonal Antibody

catalog number: E-AB-93123

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*
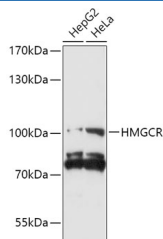
Description

Reactivity	Human;Mouse
Immunogen	Recombinant fusion protein of human HMGCR
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Buffer	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.

Applications

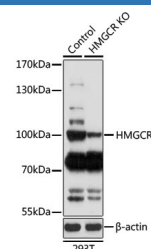| Applications	Recommended Dilution
WB	1:500-1:2000

Data

Western blot analysis of extracts from normal (control) and HMGCR knockout (KO) 293T cells, using HMGCR Polyclonal Antibody at 1:1000 dilution.

Observed-MV:101 kDa

Calculated-MV:92 kDa/97 kDa/99 kDa

Western blot analysis of extracts of various cell lines using HMGCR Polyclonal Antibody at 1:1000 dilution.

Observed-MV:101 kDa

Calculated-MV:92 kDa/97 kDa/99 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

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.

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