

## Anti-PCSK9 Antibody

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature  
Store at -20°C

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Anti-PCSK9 Antibody is a humanized monoclonal antibody targeting Proprotein Convertase Subtilisin/Kexin type 9 (PCSK9). PCSK9 is a serine protease primarily secreted by the liver that binds to the Low-Density Lipoprotein Receptor (LDLR) on the hepatocyte surface, promoting its internalization and lysosomal degradation, thereby preventing LDLR recycling to the cell surface. This reduces the liver's ability to clear LDL-cholesterol (LDL-C) from the blood. Anti-PCSK9 Antibody specifically binds to PCSK9, blocking its interaction with LDLR and inhibiting PCSK9-mediated LDLR degradation. This action increases the density of LDLR on hepatocytes, enhances LDL-C clearance, and significantly lowers serum cholesterol levels. It is widely used in research on hypercholesterolemia and atherosclerotic cardiovascular diseases.
In vitro	Anti-PCSK9 Antibody binds to human PCSK9 with high affinity and prevents its interaction with the EGF-A domain of the LDLR. In HepG2 cells, the antibody dose-dependently inhibits PCSK9-induced LDLR degradation, restores LDLR recycling to the cell surface, and significantly increases the uptake of fluorescently labeled LDL [1][2].
In vivo	In hypercholesterolemic mice and non-human primate models, systemic administration of Anti-PCSK9 Antibody results in a rapid and sustained reduction in serum LDL-C levels. The treatment increases hepatic LDLR protein levels without affecting PCSK9 mRNA expression, demonstrating a post-translational mechanism of action effectively regulating lipid homeostasis [1].

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