

Datasheet for ABIN2666529

PCSK9 Protein (AA 29-692, C-Term)



Go to Product page

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10 μg
PCSK9
AA 29-692, C-Term
Human
CHO Cells
Recombinant
Active
Western Blotting (WB), Immunohistochemistry (IHC)
> 90 % , as determined by Coomassie stained SDS-PAGE.
0.22 µm filtered
Less than 1 EU per μg protein as determine by the LAL method.
PCSK9
PCSK9 (PCSK9 Products)
Protein convertase subtilisin/kexin 9 (PCSK9) possesses a signal peptide (aa 1-30), a

intestine, kidney, and brain, and it is present in plasma. Upon translocation to the endoplasmic reticulum, the prosegment of PCSK9 is autocatalytically cleaved at the VFAQ152QSIP site and secreted as a stable, enzymatically inactive, non-covalent complex. Elevated low density lipoprotein-cholesterol (LDLc) level is a major risk factor for cardiovascular disease and atherosclerosis. LDLc is cleared from circulation by the LDL receptor (LDLR), PCSK9 is a regulator of LDLc levels through the binding of LDLR, subsequently leading to the degradation of LDLR. Therefore, it is biologically plausible that drugs inhibiting PCSK9 would lower heart attacks and other diseases caused by increased cholesterol. PCSK9 also binds to other LDLR family members such as very low density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER), and apolipoprotein receptor 2 (LRP8/APOER2), which lead to their degradation in the intracellular acidic compartments. Like the LDLR, gene expression of PCSK9 is positively regulated by SREBP-2, a transcription factor that is activated in response to cellular cholesterol depletion.

Molecular Weight:

Predicted molecular mass of approximately 73 kDa. It migrates as 70 and 17 kDa for mature and prodomain, respectively, in DTT-reducing conditions and 63 and 17 kDa in non-reducing conditions by SDS-PAGE.

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: Human PCSK9 binds human LDLR. The amount of human LDLR bound in assay conditions is determined by ELISA.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening.
Buffer:	0.22 μm filtered protein solution is in 25 mM sodium Acetate, 150 mM NaCl, pH 5.0.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored between 2°C and 8° for one month, at -20°C for three months, or at -70°C for six months.