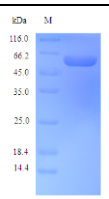
Recombinant Callithrix jacchus Proprotein convertase subtilisin/kexin type 9(PCSK9)

Catalog Number: CSB-YP017647CYL

Product Name：	Recombinant Callithrix jacchus Proprotein convertase subtilisin/kexin type 9(PCSK9)
Catalog Number：	CSB-YP017647CYL
Relevance ：	Crucial player in the regulation of plasma cholesterol homeostasis. Binds to low-density lipid receptor family members: low density lipoprotein receptor (LDLR), very low density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER) and apolipoprotein receptor 2 (LRP8/APOER2), and promotes their degradation in intracellular acidic compartments. Acts via a non-proteolytic mechanism to enhance the degradation of the hepatic LDLR through a clathrin LDLRAP1/ARH-mediated pathway. May prevent the recycling of LDLR from endosomes to the cell surface or direct it to lysosomes for degradation. Can induce ubiquitination of LDLR leading to its subsequent degradation. Inhibits intracellular degradation of APOB via the autophagosome/lysosome pathway in a LDLR-independent manner. Involved in the disposal of non-acetylated intermediates of BACE1 in the early secretory pathway. Inhibits epithelial Na+ channel (ENaC)-mediated Na+ absorption by reducing ENaC surface expression primarily by increasing its proteasomal degradation. Regulates neuronal apoptosis via modulation of LRP8/APOER2 levels and related anti-apoptotic signaling pathways (By similarity).
Mol. Weight：	62kd
Product Info ：	His-tagged
Source：	Yeast derived
Image:	
Purity：	>90%(SDS-PAGE)
Storage Buffer：	Tris based buffer pH 8.0, 50% glycerol
Storage ：	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes ：	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.

AA sequence：	SIPWNLERITPARYRADEYQPPNGGSLVEVYLLDTSIQSGHREIEGRVM VTDFGSVPEEDGTRFHRQASKCDSHGTHLAGVVSGRDAGVAKGASL RSLRVLNCQGKGTVSSTLIGLEFIRKSQLVQPVGPLVVLLPLAGGYSRV LNAACQRLARAGVVLVAAAGNFRDDACLYSPASAPEVITVGATNAQDQ PVTLGTLGTNFGRCVDLFAPGEDIIGASSDCSTCFVSRSGTSQAAAHV AGIAAMMLSAKPELTLAELRQRLIHFSAKDVINEAWFPEDQRVLTPNLV AALPPSTHGAGWQLFCRTVWSAHSGPTRMATAMARCAPDEELLSCS SFSRSGRRRGERIEAQGGRRVCLAHNAFGGEGVYAIARCCLLPQANC SVHTAPPAGAGMGTRAHCHQQGHILTGCSSHWEVEDLGTHKPPVLRP GGQHDQCMGHRGASTHASCCHAPGLECKVKEHGLPAPQEQVTVTCE EGWTLTGCSALPGTSHILGAYAVDDTCVVRSRDVSTTSSTSEETVATVA ICCRSQHLAQASQELQ
References：	"Evidence for positive selection in the C-terminal domain of the cholesterol metabolism gene PCSK9 based on phylogenetic analysis in 14 primate species." Ding K., McDonough S.J., Kullo I.J. PLoS ONE 2:E1098-E1098(2007)