abcam

Product datasheet

Recombinant hamster PCSK9 protein (Active) ab221332

3 Images

Description

Product name	Recombinant hamster PCSK9 protein (Active)
Biological activity	Measured by its binding ability in a functional ELISA against immobilized Human LDL R (High Purity) Protein, Strep Tag, (0.5 µg/well). The linear range is 6-50 ng/mL.
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	G3GTK5
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Hamster
Sequence	QDEDAEYEELMLALRSQEDGLAEEEAPHVATAPFHRCSK EAWRLPGTYIV VLIDGAQRLQIEQTIHRLQTQAARRGYVIKVLDIFYDILPGFV VKMSSDL LDLALKLPHVKYIEEDSLVFGQSIPWNLDRIIPAGRQAQEYS SSNGSGQV EVYLLDTSIQSDHREIEGRVTITDFNSVPEEDGTRFHRQAS KCDSHGTHL AGVVSGRDAGVAKGTILHSLRVLNCQGKGTVSGTLIGLEFI WKSQLIQPS GPLVVLLPLAGRYSRILNTACQHLASNGVVLVAAAGNFRD DACLYSPASA PEVITVGATDVQDQPVTLGTLGTNFGRCVDLFAPGKDIIGA SSDCSTCFM SQSGTSQAAAHVAGIVVTMLTLEPELTLAELRQRLIHFSTK DVINMAWFP EDQRVLTPNLVATMPPKTHGTGLVAGGQLLCRTVWSAHS GPTRTATATAR CAPGEELLSCSSFSRSGRRRGDRIEAIGGQQVCKAFNAF GGEGVYAVARC CLLPRANCSTHTTPAARTSLGTHVHCHQKDHVLTGCSFH

WEVEGIGVQRW
AVLRSRHQPGQCIGHREASAHASCCHAPGLDCKIKEHGIS
GPAEQVTVAC
EAGWTLTGCNVLPGAFMTLGAYAVDNMCVARSCATDTA
GRTSEEAIVAAA ICCRSRPSAKAS

Molecular weight information	The pro-peptide and mature chain are associated through non-covalent interactions and with a calculated MW of 13.9 kDa and 59.0 kDa respectively. The protein migrates as 18 kDa and 65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Amino acids	30 to 691
Tags	His tag C-Terminus
Additional sequence information	This protein undergoes autocatalytic cleavage to release the pro-peptide and mature chain. The pro-peptide and mature chain are associated through non-covalent interactions.

Specifications

Our **Abpromise guarantee** covers the use of **ab221332** in the following tested applications.

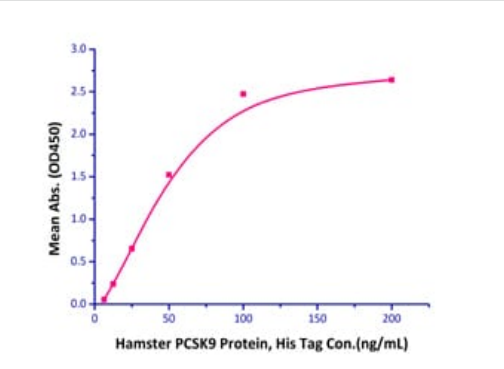
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Lyophilized
Additional notes	Proprotein convertase subtilisin/kexin type 9 (PCSK9) is also known as NARC1 (neural apoptosis regulated convertase), is a newly identified subtilase belonging to the peptidase S8 subfamily. Mouse PCSK9 is synthesized as a soluble zymogen, and undergoes autocatalytic intramolecular processing in the endoplasmic reticulum, resulting in the cleavage of its propeptide that remains associated with the secreted active enzyme with a broad alkaline pH optimum. This protein plays a major regulatory role in cholesterol homeostasis. PCSK9 binds to the epidermal growth factor-like repeat A (EGF-A) domain of the low-density lipoprotein receptor (LDLR), inducing LDLR degradation. PCSK9 may also have a role in the differentiation of cortical neurons. Mutations in this gene have been associated with a rare form of autosomal dominant familial hypercholesterolemia (HCHOLA3).

Preparation and Storage

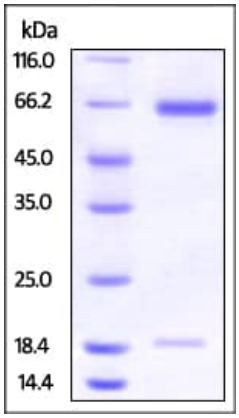
Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituents: 95% PBS, 5% Trehalose Lyophilized from 0.22 µm filtered solution. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

Images



Functional Studies - Recombinant hamster PCSK9 protein (Active) (ab221332)

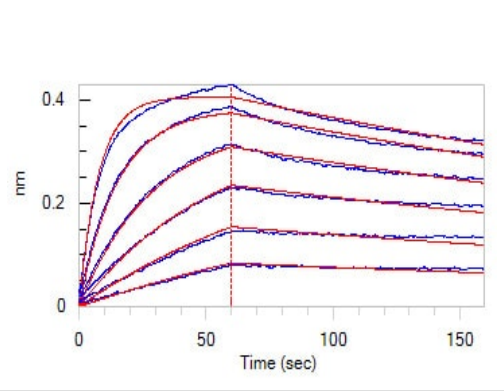
Immobilized Human LDL R (High Purity) Protein, Strep Tag at 5 µg/mL (100 µl/well) can bind ab221332 with a linear range of 6-50 ng/mL.



SDS-PAGE - Recombinant hamster PCSK9 protein (Active) (ab221332)

SDS-PAGE analysis of reduced ab221332 stained overnight with Coomassie Blue.

The pro-peptide and mature chain are associated through nonlcovalent interactions and with a calculated MW of 13.9 kDa and 59.0 kDa respectively. The protein migrates as 18 kDa and 65 kDa under reducing (R) condition here due to glycosylation.



Functional Studies - Recombinant hamster PCSK9 protein (Active) (ab221332)

Loaded Human LDL R, Fc Tag on Protein A Biosensor, can bind Hamster PCSK9, His Tag with an affinity constant of 4.09 nM as determined in BLI assay

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