

Recombinant mouse PCSK9 protein ab167759

2 References 4 Images

Description

Product name	Recombinant mouse PCSK9 protein
Biological activity	<p>Measured by its binding ability in a functional ELISA. Immobilized Human LDL receptor protein (ab220582) at 10 µg/mL (100 µL/well) can bind ab167759 with a linear range of 0.125-1 µg/mL.</p> <p>Measured by its binding ability in a BLI assay. Loaded Recombinant human LDL Receptor protein (ab220570) on Protein A Biosensor, can bind Recombinant mouse PCSK9 protein (ab167759) with an affinity constant of 2.28 nM as determined in BLI assay.</p>
Purity	<p>> 97 % SDS-PAGE.</p> <p>ab167759 is lyophilized from 0.22 µm filtered solution. Purified by Immobilized metal affinity chromatography.</p>
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	Q80W65
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	<p>QDEDGDYEELMLALPSQEDGLADEAAHVATATFRRCSK EAWRLPGTYIVV LMEETQRLQIEQTAHRLQTRAARRGYIKVLHIFYDLFPGFL VKMSSDLL GLALKLPHVEYIEEDSFVFAQSIPWNLERIIPAWHQTEEDR SPDGSSQVE VYLLDTSIQGAHREIEGRVTITDFNSVPEEDGTRFHRQASK CDSHGTHLA GVVSGRDAGVAKGTSLSLRVLNCQGKGTVSGTLIGLEFI RKSQLIQPSG PLVVLLPLAGGYSRILNAACRHLARTGVVLVAAAGNFRDD ACLYSPASAP EVITVGATNAQDQPVTLTGLGTNFGRCVDLFAPGKDIIGAS SDCSTCFMS QSGTSQAAAHVAGVARMLSREPTLTAE LRQRLIHFSTKD VINMAWFPE DQQVLTPNLVATLPPSTHETGGQLLCRTVWSAHSGPTRT</p>

ATATARCAPEE
 ELLSCSSFSRSGRRRGDWIEAIGGQQVCKALNAFGGEGV
 YAVARCCLVPR
 ANCSIHNTPAARAGLETHVHCHQKDHVLTGCSFHWEVED
 LSVRRQPALRS
 RRQPGQCVGHQAASVYASCCHAPGLECKIKEHGSGPSE
 QVTVACEAGWT
 LTGCNVLPGASLTLGAYSVDNLCVARVHDTARADRTSGE
 ATVAAAICCRS RPSAKASWVQ

Predicted molecular weight	72 kDa including tags
Amino acids	35 to 694
Tags	His tag C-Terminus
Additional sequence information	NCBI Accession number: AAH38085.1

Specifications

Our **Abpromise guarantee** covers the use of **ab167759** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE ELISA
Form	Lyophilized

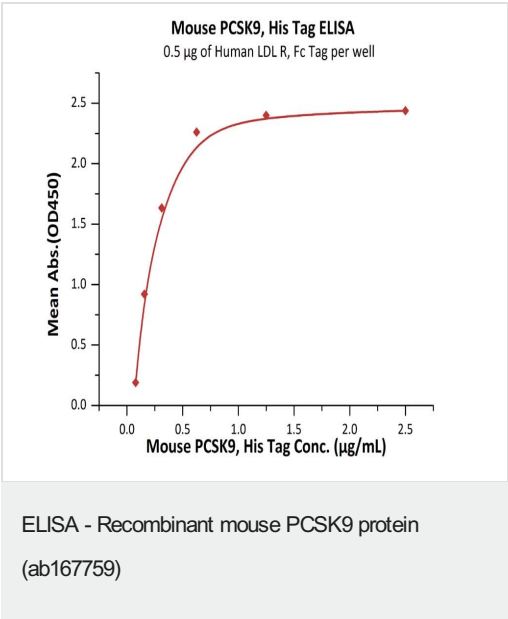
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituents: 94% PBS, 5% Trehalose 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.

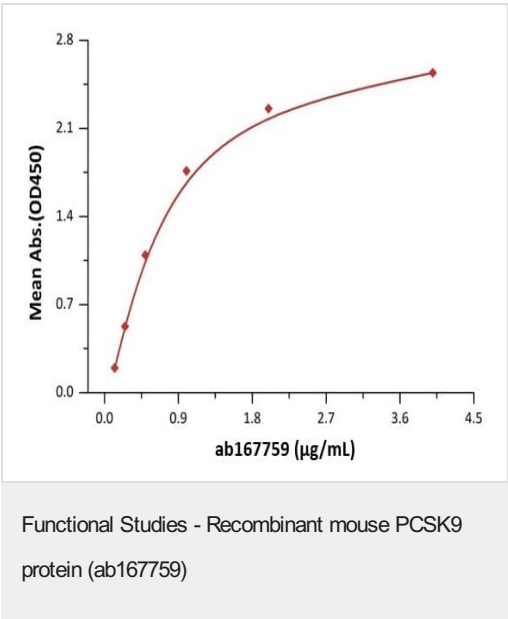
General Info

Function	May be implicated in the differentiation of cortical neurons and may play a role in cholesterol homeostasis.
Tissue specificity	Expressed in neuro-epithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells.
Involvement in disease	Defects in PCSK9 are the cause of familial hypercholesterolemia 3 (FH3) [MIM:603776]. FH3 inheritance is autosomal dominant.
Sequence similarities	Belongs to the peptidase S8 family. Contains 1 peptidase S8 domain.
Post-translational modifications	The soluble zymogen undergoes autocatalytic intramolecular processing in the endoplasmic reticulum, resulting in the cleavage of its propeptide that remains associated with the secreted enzyme.

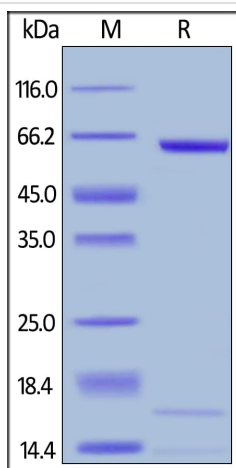
Images



Immobilized Human LDL receptor protein ([ab220582](#)) at 5 µg/mL (100 µL/well) can bind Recombinant mouse PCSK9 protein (ab167759) with a linear range of 0.078-0.313 µg/mL.

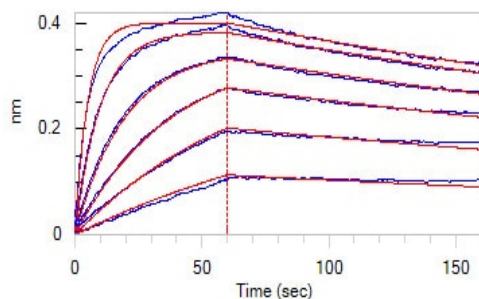


Immobilized Human LDL receptor protein ([ab220582](#)) at 10 µg/mL (100 µL/well) can bind ab167759 with a linear range of 0.125-1 µg/mL.



SDS-PAGE - Recombinant mouse PCSK9 protein (ab167759)

SDS-PAGE analysis of reduced ab167759 stained overnight with Coomassie Blue. The protein migrates as 17 kDa and 65 kDa under reducing (R) condition due to glycosylation and proteolytic digestion.



Functional Studies - Recombinant mouse PCSK9 protein (ab167759)

Loaded Recombinant human LDL Receptor protein (**ab220570**) on Protein A Biosensor, can bind Recombinant mouse PCSK9 protein (ab167759) with an affinity constant of 2.28 nM as determined in BLI assay.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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