

Product datasheet

Recombinant human PCSK9 protein ab198471

2 Images

Description

<b>Product name</b>	Recombinant human PCSK9 protein
<b>Biological activity</b>	50 µL reaction mix (50 mM HEPES pH 7.4, 100 mM NaCl, 200 µM CaCl <sub>2</sub> , 0.05% Tween-20, 0.1% BSA, and up to 1500 ng PCSK9) is added to wells precoated with LDLR Ectodomain. Incubate for 2 hour. Add antibody against polyhistidine and then incubate 1 hour. Add secondary HRP labeled antibody and incubate 30 minutes. Finally, add HRP chemiluminescent substrates and read luminescence.
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<a href="#">NM_174936</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>QEDEDGDYEELVLALRSEEDGLAEAPEHGTTATFHRC  AKDPWRLPGTYVV  VLKEETHLSQSERTARRLQAQAARRGYLTKILHVFHGL  LPGFLVKMSGDL  LELALKLPHVDYIEDSSVFAQSIPWNLERITPPRYRAD  EYQPPDGGSLV  EVYLLDTSIQSDHREIEGRVMVTD FENVPEEDGTRFHR  QASKCD SHGTHL  AGVVSGRDAGVAKGASMRSLRVLN CQGKGT VSGTLI  GLEFIRKSQLVQP V  GPLVLLPLAGGYSRVLNAACQRLARAGVVLVTAAGN  FRDDACLYSPASA  PEVITVGATNAQDQPVTLGTLGTNFGRCVDL FAPGEDII  GASSDCSTCFV  SQSGTSQAAAHVAGIAAMMLSAEPELTLAELRQRLIHF  SAKDVINEAWFP  EDQRVLPNLVAALPPSTHGAGWQLFCRTVWSAHSG  PTRMATAVARCAPD  EELLSCSSFSRSGKRRGERMEAQGGKLV CRAHNAFG  GEGVYAIARCCLLP  QANCSVHTAPPAEASMGTRVHCHQQGHVLTGCSSH  WEVEDLGTHKPPVLR</p>

PRGQPNCVGHREASIHASCCHAPGLECKVKEHGIPA  
PQEQTVACEEGW  
TLTGCSALPGTSHVLGAYAVDNTCVVRSRDVSTTGST  
SEGAVTAVAICCR SRHLAQASQELQHSHHHHH

<b>Predicted molecular weight</b>	72 kDa including tags
<b>Amino acids</b>	31 to 692
<b>Tags</b>	His tag C-Terminus
<b>Additional sequence information</b>	Full length mature form with propeptide, without signal peptide.

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab198471** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Liquid

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.
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## General Info

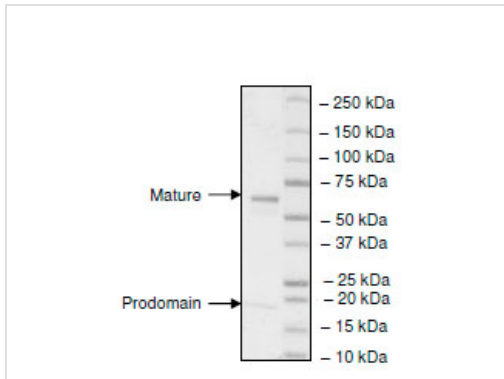
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<b>Function</b>	May be implicated in the differentiation of cortical neurons and may play a role in cholesterol homeostasis.
<b>Tissue specificity</b>	Expressed in neuro-epithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells.
<b>Involvement in disease</b>	Defects in PCSK9 are the cause of familial hypercholesterolemia 3 (FH3) [MIM:603776]. FH3 inheritance is autosomal dominant.
<b>Sequence similarities</b>	Belongs to the peptidase S8 family. Contains 1 peptidase S8 domain.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Secreted.

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## Images

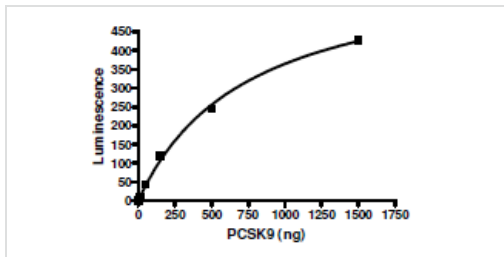
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SDS-PAGE - Recombinant human PCSK9 protein (ab198471)

4-20% SDS PAGE gel analysis of 2.3 µg ab198471 and stained with Coomassie.

Product is autocleaved to the ~14 kDa prodomain (a.a. 31-152) and the ~58 kDa mature form (a.a. 153-692(end)), which run at higher apparent MW by SDS-PAGE.



Functional Studies - Recombinant human PCSK9 protein (ab198471)

Functional assay showing ab198471 interaction with LDLR

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

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