abcam

Product datasheet

Recombinant human PCSK9 protein ab198471

1 References   2 Images

Description

Product name	Recombinant human PCSK9 protein
Biological activity	50 µL reaction mix (50 mM HEPES pH 7.4, 100 mM NaCl, 200 µM $CaCl_2$, 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.
Purity	>= 90 % SDS-PAGE. Lot specific.
Expression system	HEK 293 cells
Accession	NM_174936
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	QEDEDGDYEELVLALRSEEDGLAEAPEHGTTATFHRCAKDPWRLPGTYVV VLKEETHLSQSERTARRLQAQAARRGYLTKILHVFHGLLPGFLVKMSGDL LELALKLPHVDYIEEDSSVFAQSIPWNLERITPPRYRADEYQPPDGGSLV EVYLLDTSIQSDHREIEGRVMVTDFENVPEEDGTRFHRQASKCDSHGTHL AGVVSGRDAGVAKGASMRSLRVLNCQGKGTVSGTLIGLEFIRKSQLVQPV GPLVVLLPLAGGYSRVLNAACQRLARAGVVLVTAAGNFRDDACLYSPASA PEVITVGATNAQDQPVTLGTLGTNFGRCVDLFAPGEDIIGASSDCSTCFV SQSGTSQAAAHVAGIAAMMLSAEPELTLAELRQRLIHFSAKDVINEAWFP EDQRVLTPNLVAALPPSTHGAGWQLFCRTVWSAHSGPTRMATAVARCAPD EELLSCSSFSRSGKRRGERMEAQGGKLVCRAHNAFGGEGVYAIARCCLLP

QANCSVHTAPPAEASMGTRVHCHQQGHVLTGCSSHWEV
EDLGTHKPPVLR
PRGQPNQCVGHREASIHASCCHAPGLECKVKEHGIPAPQ
EQVTVACEEGW
TLTGCSALPGTSHVLGAYAVDNTCVVRSRDVSTTGSTSE
GAVTAVAICCR SRHLAQASQELQHHHHHH

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

Specifications

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.

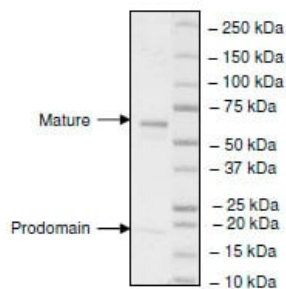|	
Applications	Functional Studies
	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	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 (glycerin, glycerine)
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

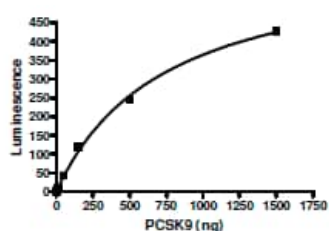|	
Function	May be implicated in the differentiation of cortical neurons and may play a role in cholesterol homeostasis.
Tissue specificity	Expressed in neuro-epithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells.
Involvement in disease	Defects in PCSK9 are the cause of 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.
Cellular localization	Secreted.

Images

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.

SDS-PAGE - Recombinant human PCSK9 protein (ab198471)

Functional assay showing ab198471 interaction with LDLR

Functional Studies - Recombinant human PCSK9 protein (ab198471)

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