

Recombinant rat PCSK9 protein (His tag) ab201424

3 Images

Description	
Product name	Recombinant rat PCSK9 protein (His tag)
Biological activity	Measured by its binding ability in a functional ELISA. Immobilized Recombinant human LDL Receptor protein (ab220582) can bind Recombinant Rat PCSK9 protein (ab201424) with a linear range of 8-63 ng/mL.
	Measured by its binding ability in a BLI assay. Loaded Recombinant human LDL Receptor protein (ab220570) on Protein A Biosensor, can bind Recombinant rat PCSK9 protein (ab201424) with an affinity constant of 1.61 nM.
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	P59996
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Rat
Sequence	QDEDGDYEELMLALPSQEDSLVDEASHVATATFRRCSKE AWRLPGTYVVV LMEETQRLQV EQTAHRLQTWAARRGYVIKVLHVFDLFPGFLVKMSSD LLGLALKLPHVEYEEEDSLVFAQSIPWNLERIPAWQQTEED SSPDGSSQ VEVYLLDTSIQSGHREIEGRVTITDFNSVPEED GTRFHRQASKCDSHG THLAGVVSGRDAGVAKGTSLHSLRVLNCQGKGTVSGTLIG LEFIR KSQ LIQPSGPLVVLLPLAGGYSRILNTACQRLARTGVVLVAAAG NFRDDACLY SPASAPE VITVGATNAQDQPVTLGTLGTNFGRCVDLFAPGKDIIGASS DCSTCYMSQSGTSQAAAHV AGVAMMLNRDPALTAEELRQRLILFSTK DVINMAWFPEDQRVLTPIRVATLPPSTQETG GQLLCRTVWSAHSGPTR TATATARCAPEEEELLSCSSFSRSGRRRGDRIEAIGGQQVC

KAL NAFGG
 EGVYAVARCCLLPRVNCSIHNTPAARAGPQTPVHCHQKD
 HVLTGCSFHWE VENLR
 AQQQPLLRSRHQPGQCVGHQEASVHASCCHAPGLECKI
 KEHGI AGPAEQTVACEAGWTL
 TGCNVLPGASLPLGAYSVDNVCVARIRDAGR
 ADRTSEEATVAAAICCRSRPSAKASWVHQ

Predicted molecular weight	73 kDa including tags
Amino acids	31 to 691
Tags	His tag C-Terminus
Additional sequence information	Mature form including propeptide. The signal peptide is not included. (NP_954862).

Specifications

Our **Abpromise guarantee** covers the use of **ab201424** 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
Form	Lyophilized

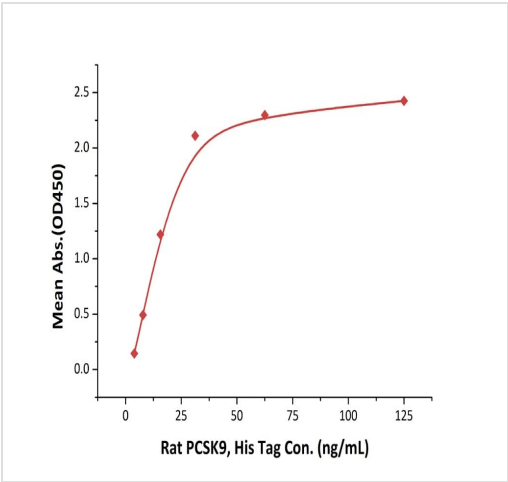
Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).</p> <p>pH: 7.40</p> <p>Constituents: 95% PBS, 5% Trehalose</p> <p>Lyophilized from 0.22 µm filtered solution</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
Reconstitution	Reconstitute with sterile deionized water to a concentration of 100 µg/ml.

General Info

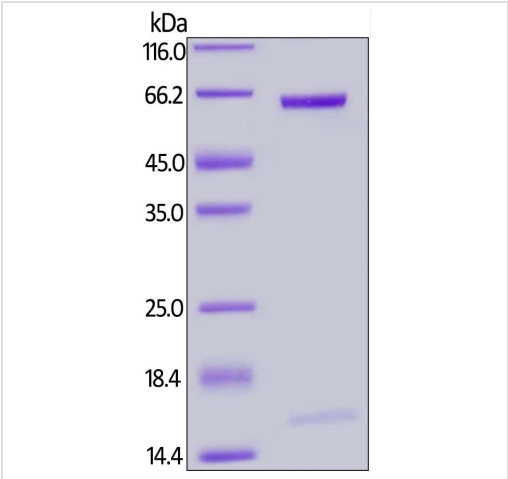
Function	May be implicated in the differentiation of cortical neurons and may play a role in cholesterol homeostasis.
Tissue specificity	Expressed in neuro-epithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells.
Involvement in disease	Defects in PCSK9 are the cause of familial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



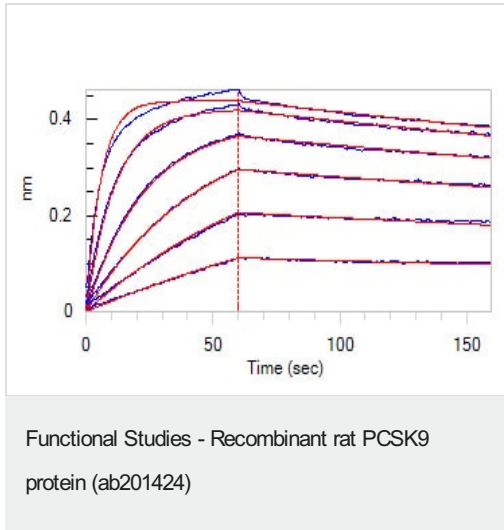
ELISA - Recombinant Rat PCSK9 protein (ab201424)

Immobilized Recombinant human LDL Receptor protein ([ab220582](#)) can bind Recombinant Rat PCSK9 protein (ab201424) with a linear range of 8-63 ng/mL.



SDS-PAGE - Recombinant Rat PCSK9 protein (ab201424)

SDS-PAGE analysis of reduced ab201424 stained overnight with Coomassie Blue. The protein migrates as 16 kDa and 60-66 kDa under reducing condition due to glycosylation.



Loaded Recombinant human LDL Receptor protein (**ab220570**) on Protein A Biosensor, can bind Recombinant rat PCSK9 protein (**ab201424**) with an affinity constant of 1.61 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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