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Datasheet for ABIN2444171 PCSK9 Protein (AA 31-692) (His tag,AVI tag,Biotin)

3	Images	3	Publications
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Overview

Quantity:	200 µg
Target:	PCSK9
Protein Characteristics:	AA 31-692
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PCSK9 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Brand:	MABSol®,PrecisionAvi
Sequence:	AA 31-692
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 72 kDa. The protein migrates as 18 kDa and 66 kDa on a SDS- PAGE gel under reducing (R) condition due to glycosylation and proteolytic digestion.
Purity:	>92 % as determined by reduced SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

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Target Details

Farget:	PCSK9
Alternative Name:	PCSK9 (PCSK9 Products)
Background:	Proprotein convertase subtilisin/kexin type 9 (PCSK9), is an enzyme which in humans is
	encoded by the PCSK9 gene. This gene encodes a proprotein convertase belonging to the
	proteinase K subfamily of the secretory subtilase family. 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).
Aolecular Weight: 13.8 kDa and 59.9 kDa	
Application Details	
Comment:	Ready-to-use AvitagTM biotinylated protein:
	The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino
	acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector
	construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli
	biotin ligase BirA.
	This single-point enzymatic labeling technique brings many advantages for commonly used
	binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does
	NOT interfere with the target protein's natural binding activities. In addition, when immobilized
	on an avidin-coated surface, the protein orientation is uniform because the position of the Avi
	tag in the protein is precisely controlled.
Restrictions:	For Research Use only
Handling	
Eormat:	Lyophilizod

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-

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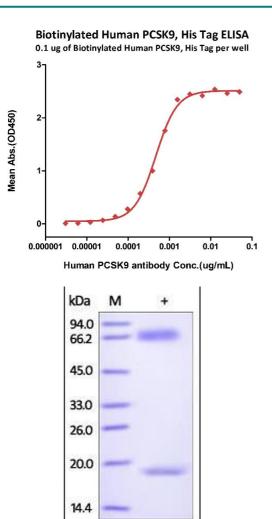
thaw cycles.

Publications

Product cited in:

Schartl, Wilde, Laisney, Taniguchi, Takeda, Meierjohann: "A mutated EGFR is sufficient to induce malignant melanoma with genetic background-dependent histopathologies." in: **The Journal of investigative dermatology**, Vol. 130, Issue 1, pp. 249-58, (2009) (PubMed).

Images



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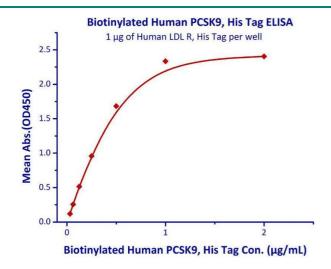
Image 1. Immobilized Biotinylated Human PCSK9, Avitag,His Tag (ABIN2444172,ABIN2444171) can bind PCSK9 Mab, Human IgG with a linear range of 0.05-1.5 ng/mL. The biotinylated PCSK9 is coated at 1 μ g/mL (100 μ L/well) on a streptavidin coated plates (Routinely tested).

SDS-PAGE

Image 2. Biotinylated Human PCSK9 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 92%.

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Images



Binding Studies

Image 3. Immobilized Human LDL R, His Tag (Cat# LDR-H5224) at 10 μ g/mL (100 μ l/well) can bind Biotinylated Human PCSK9 (Cat# PC9-H82E7) with a linear range of 0.01-0.1 μ g/mL.

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