

# Product Datasheet

## Proprotein Convertase 9/PCSK9 Antibody NB300-959

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NB300-959**

## Proprotein Convertase 9/PCSK9 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Description	Novus Biologicals Goat Proprotein Convertase 9/PCSK9 Antibody (NB300-959) is a polyclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and ChIP. Anti-Proprotein Convertase 9/PCSK9 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	255738
Gene Symbol	PCSK9
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 29593095).
Immunogen	Peptide with sequence CRSRHLAQASQELQ corresponding to C-Terminus according to NP_777596.2.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Peptide ELISA, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 0.3-1 ug/ml, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 5-6 ug/ml, Peptide ELISA detection limit 1:16000, Chromatin Immunoprecipitation (ChIP) 1:10-1:500
Application Notes	ICC/IF reactivity reported in (PMID: 30210081), Chip reactivity reported in (PMID: 20427574).

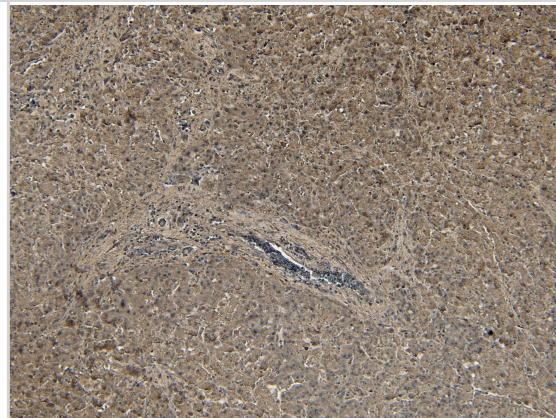


**Images**

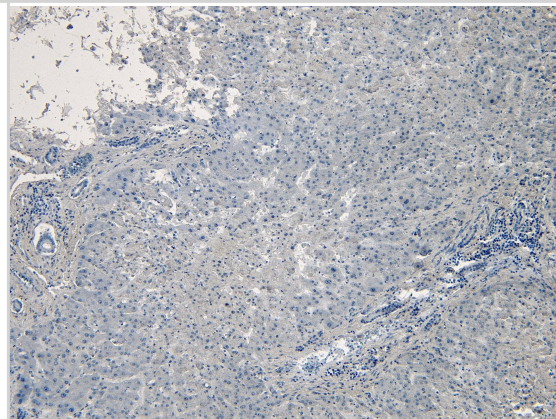
Western Blot: Proprotein Convertase 9/PCSK9 Antibody [NB300-959] - (0.3ug/ml) staining of Human Adipose lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa  
15kDa

Immunohistochemistry-Paraffin: Proprotein Convertase 9/PCSK9 Antibody [NB300-959] - (5ug/ml) staining of paraffin embedded Human Liver. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Immunohistochemistry-Paraffin: Proprotein Convertase 9/PCSK9 Antibody [NB300-959] - Negative Control showing staining of paraffin embedded Human Liver, with no primary antibody.



## Publications

Tanaka H, Inuzuka K, Iida Y et al. Proprotein Convertase Subtilisin/Kexin Type 9 Is Associated with Degenerating Adipocytes in Abdominal Aortic Aneurysm. *J Oleo Sci* 2018-09-13 [PMID: 30210081] (ICC/IF, Human)

Lebeau P, Platko K, Al-Hashimi AA et al. Loss-of-function PCSK9 mutants evade the unfolded protein response sensor GRP78 and fail to induce endoplasmic reticulum stress when retained *J Biol Chem* 2018-05-11 [PMID: 29593095] (Mouse)

Lebeau P, Al-Hashimi A, Sood S et al. Endoplasmic reticulum stress and Ca<sup>2+</sup> depletion differentially modulate the sterol-regulatory protein PCSK9 to control lipid metabolism. *J. Biol. Chem.* 2016-12-01 [PMID: 27909053]

Cohen J, Pertsemlidis A, Kotowski IK et al. Low LDL cholesterol in individuals of African descent resulting from frequent nonsense mutations in PCSK9. *Nat Genet* 2005-02-01 [PMID: 15654334]

Benjannet S, Rhoads D, Hamelin J et al. The proprotein convertase (PC) PCSK9 is inactivated by furin and/or PC5/6A: functional consequences of natural mutations and post-translational modifications. *J Biol Chem.* 2006-10-13 [PMID: 16912035]

### Details:

IP: HEK293 cells transfected with human PCSK9, PCSK9 + Furin, or empty vector (Fig 9A). The PCSK9 IMG-3786 antibody recognized pro-PCSK9, mature PCSK9, and its furin-cleaved form in both cells and media. Note: The specificity of the PCSK9 IMG-3786 antibody

Diebold I, Petry A, Hess J et al. The NADPH oxidase subunit NOX4 is a new target gene of the hypoxia-inducible factor-1 *Mol Biol Cell.* 2010-06-15 [PMID: 20427574] (WB, Chemotaxis)

Lambert G, Ancellin N, Charlton F et al. Plasma PCSK9 concentrations correlate with LDL and total cholesterol in diabetic patients and are decreased by fenofibrate treatment. *Clin Chem.* 2008-06-01 [PMID: 18436719] (WB)

### Details:

WB: Recombinant human PCSK9 (Fig 1B), PCSK9 was detected as a signal band slightly above the 60 kDa marker. ELISA: Human plasma (Figs 1D, 2, 3), The IMG-3786 PCSK9 pAb was used as the capture antibody at 1 ug/well of a 96-well ELISA plate. IP: Human hepta

Dewpura T, Raymond A, Hamelin J et al. PCSK9 is phosphorylated by a Golgi casein kinase-like kinase ex vivo and circulates as a phosphoprotein in humans. *FEBS J.* 2008-07-01 [PMID: 18498363] (WB, Human)

### Details:

WB: Media from HepG2 cells, media from PCSK9 overexpressing cells, human plasma (Fig 6). Media was IP'd with a different PCSK9 antibody and immunoprecipitates were detected by WB with the IMG-3786 PCSK9 antibody. Note: The specificity of PCSK9 antibody wa

Blesa S, Vernia S, Garcia-Garcia AB et al. A new PCSK9 gene promoter variant affects gene expression and causes autosomal dominant hypercholesterolemia. *J Clin Endocrinol Metab.* 2008-09-01 [PMID: 18559913] (WB)

### Details:

WB: human depleted plasma, lymphocytes, and PCSK9 positive control cells (data described but not shown). Albumin and IgG were depleted from the plasma prior to measurement of PCSK9 expression. A WB signal was detected in positive control cells; however, P

Dube E, Ethier-Chiasson M, Lafond J. Modulation of cholesterol transport by insulin-treated gestational diabetes mellitus in human full-term placenta. *Biol Reprod* 2013-01-17 [PMID: 23221398]

Sun XM, Eden ER, Tosi I et al. Evidence for effect of mutant PCSK9 on apolipoprotein B secretion as the cause of unusually severe dominant hypercholesterolaemia. *Hum Mol Genet* 2005-05-01 [PMID: 15772090]

Brulhart-Meynet MC, Deakin SP, Sgroi A et al. Expression of the hepatic Niemann-Pick C1 like 1 protein gene is sensitive to rosuvastatin treatment of primary human hepatocytes. *Pharmacogenet Genomics* 2010-07-01 [PMID: 20461026] (WB)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB300-959**

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NBL1-14193	Proprotein Convertase 9/PCSK9 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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