

Rabbit anti-Human PCSK9 Polyclonal Antibody | anti-PCSK9 antibody

PCSK9 Antibody (N-term)

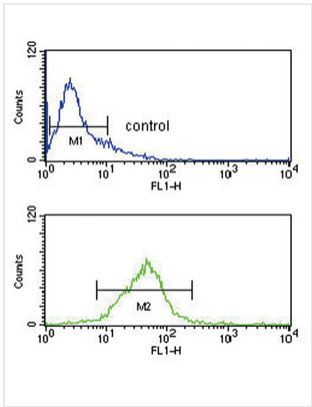
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28774	Rabbit	Human	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

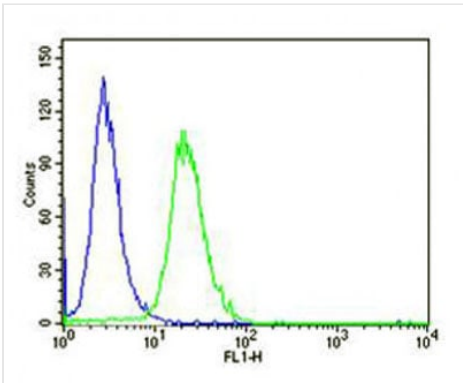
PCSK9; Polyclonal Antibody; PCSK9 Antibody (N-term); Proprotein convertase subtilisin/kexin type 9; 3421-; Neural apoptosis-regulated convertase 1; NARC-1; Proprotein convertase 9; PC9; Subtilisin/kexin-like protease PC9; NARC1; anti-PCSK9 antibody

PRODUCT SPECIFICATIONS

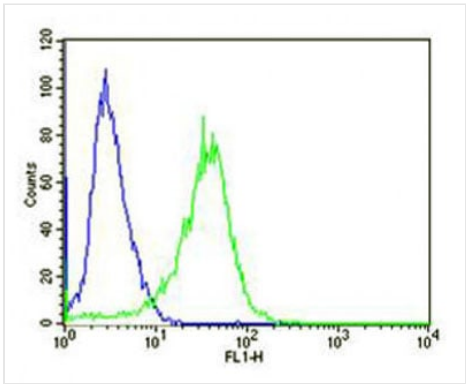
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PCSK9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 153-183 aminoacids from the N-terminal region of human PCSK9.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	153-183
Applicable Applications for anti-PCSK9 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB~1:2000 IHC-P~1:25 FC~1:25
Function	Crucial player in the regulation of plasma cholesterol homeostasis. Binds to low-density lipoprotein receptor family members: low density lipoprotein receptor (LDLR), very low density lipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER) and apolipoprotein receptor 2 (LRP8/APOER2), and promotes their degradation in intracellular acidic compartments (PubMed:18039658). Acts via a non- proteolytic mechanism to enhance the degradation of the hepatic LDLR through a clathrin LDLRAP1/ARH-mediated pathway. May prevent the recycling of LDLR from endosomes to the cell surface or direct it to lysosomes for degradation. Can induce ubiquitination of LDLR leading to its subsequent degradation (PubMed:18799458, PubMed:17461796, PubMed:18197702, PubMed:22074827). Inhibits intracellular degradation of APOB via the autophagosome/lysosome pathway in a LDLR-independent manner. Involved in the disposal of non-acetylated intermediates of BACE1 in the early secretory pathway (PubMed:18660751). Inhibits epithelial Na(+) channel (ENaC)-mediated Na(+) absorption by reducing ENaC surface expression primarily by increasing its proteasomal degradation. Regulates neuronal apoptosis via modulation of LRP8/APOER2 levels and related anti-apoptotic signaling pathways.
Cellular Location	Cytoplasm. Secreted. Endosome. Lysosome. Cell surface. Endoplasmic reticulum. Golgi apparatus. Note=Autocatalytic cleavage is required to transport it from the endoplasmic reticulum to the Golgi apparatus and for the secretion of the mature protein. Localizes to the endoplasmic reticulum in the absence of LDLR and colocalizes to the cell surface and to the endosomes/lysosomes in the presence of LDLR. The sorting to the cell surface and endosomes is required in order to fully promote LDLR degradation.
Tissue Location	Expressed in neuro-epithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells
Preparation and Storage	Maintain refrigerated at 2-8 degree for up to 2 weeks. For long term storage store at -20 degree in small aliquots to prevent freeze-thaw cycles.



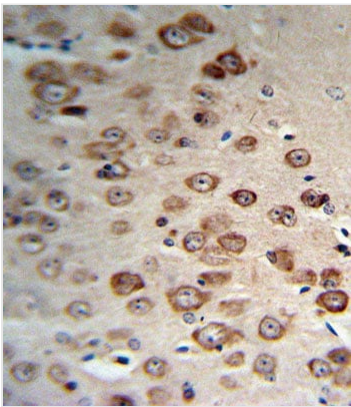
FCM (Flow Cytometry)
PCSK9 Antibody (N-term) (Cat. #AAA28774) flow cytometry analysis of Jurkat cells (bottom histogram) compared to a negative control cell(top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



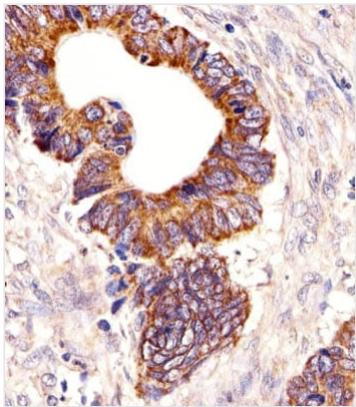
FCM (Flow Cytometry)
Flow cytometric analysis of HeLa cells using PCSK9 Antibody (N-term) (green,Cat#AAA28774) compared to an isotype control of rabbit IgG(blue). AAA28774 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody



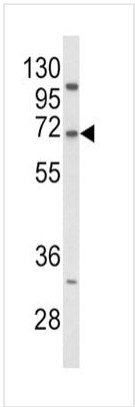
FCM (Flow Cytometry)
Flow cytometric analysis of A431 cells using PCSK9 Antibody (N-term) (green,Cat#AAA28774) compared to an isotype control of rabbit IgG(blue). AAA28774 was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.



IHC (Immunohistochemistry)
PCSK9 Antibody (N-term) IHC analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PCSK9 Antibody(N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded H. colorectal carcinoma section using PCSK9 Antibody (N-term)(Cat#AAA28774). AAA28774 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



WB (Western Blot)
Western blot analysis of PCSK9 Antibody(N-term) (Cat. #AAA28774) in Jurkat cell line lysates (35ug/lane). PCSK9 (arrow) was detected using the purified Pab

ADDITIONAL INFORMATION

Related Product Information for anti-PCSK9 antibody	PCSK9 is a proprotein convertase belonging to the proteinase K subfamily of the secretory subtilase family. This protein is synthesized as a soluble zymogen that undergoes autocatalytic intramolecular processing in the endoplasmic reticulum. The protein may function as a proprotein convertase. The protein plays a role in cholesterol homeostasis and may have a role in the differentiation of cortical neurons.
Product Categories/Family for anti-PCSK9 antibody	Crown Antibodies; Cardiovascular; Cell Biology; Metabolism; Signal Transduction
References	Abifadel,M., Rabes,J.P. Hum. Mutat. 30 (7), E682-E691 (2009) McNutt,M.C., Kwon,H.J. J. Biol. Chem. 284 (16), 10561-10570 (2009) Shioji,K., Mannami,T. J. Hum. Genet. 49 (2), 109-114 (2004) Abifadel,M., Varret,M. Nat. Genet. 34 (2), 154-156 (2003)

NCBI AND UNIPROT INFORMATION

NCBI GI #	31317307
NCBI GeneID	255738
NCBI Accession #	NP_777596.2
NCBI GenBank Nucleotide #	NM_174936.3
UniProt Accession #	Q8NBP7; Q5PSM5; Q5SZQ2; A8T640; C0JYY9
NCBI Official Full Name	proprotein convertase subtilisin/kexin type 9 preproprotein
NCBI Official Synonym Full Names	proprotein convertase subtilisin/kexin type 9
NCBI Official Symbol	PCSK9
NCBI Official Synonym Symbols	FH3; PC9; NARC1; LDLCQ1; NARC-1; HCHOLA3
NCBI Protein Information	proprotein convertase subtilisin/kexin type 9
UniProt Protein Name	Proprotein convertase subtilisin/kexin type 9
UniProt Gene Name	PCSK9
UniProt Synonym Gene Names	NARC1; NARC-1; PC9
UniProt Entry Name	PCSK9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pcsk9-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/28774>