

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

PCSK9 Antibody (C-term)

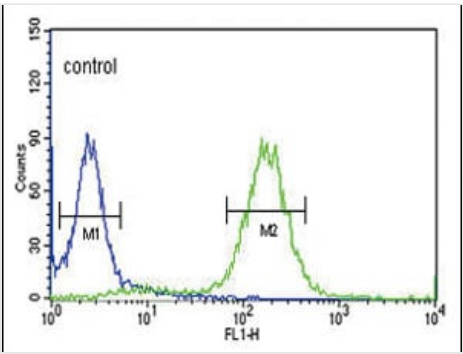
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289872	Rabbit	Human	Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

PCSK9; Polyclonal Antibody; PCSK9 Antibody (C-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

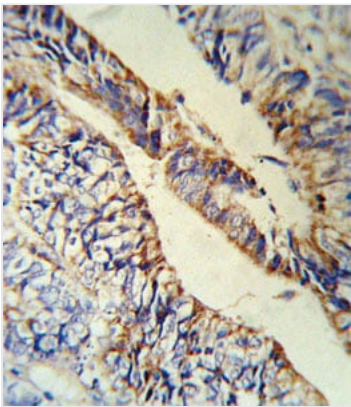
PRODUCT SPECIFICATIONS

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 479-508 amino acids from the C-terminal region of human PCSK9.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	479-508
Sequence Length	196
Applicable Applications for anti-PCSK9 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
Function	Crucial player in the regulation of plasmacholesterol homeostasis. Binds to low-densitylipid receptor family members: low densitylipoprotein receptor (LDLR), very low densitylipoprotein receptor (VLDLR), apolipoprotein E receptor (LRP1/APOER) and apolipoproteinreceptor 2 (LRP8/APOER2), and promotestheir degradation in intracellular acidiccompartments (PubMed:). Acts via anon- proteolytic mechanism to enhance thedegradation of the hepatic LDLR through aclathrin LDLRAP1/ARH-mediated pathway.May prevent the recycling of LDLR fromendosomes to the cell surface or direct it tolysosomes for degradation. Can induceubiquitination of LDLR leading to itssubsequent degradation (PubMed: , PubMed:17461796, PubMed: , PubMed:22074827).Inhibits intracellular degradation of APOB via the autophagosome/lysosome pathway in aLDLR-independent manner. Involved in thedisposal of non-acetylated intermediates ofBACE1 in the early secretory pathway(PubMed:). Inhibitsepithelial Na(+) channel (ENaC)-mediatedNa(+) absorption by reducing ENaC surfaceexpression primarily by increasing itsproteasomal degradation. Regulates neuronalapoptosis via modulation of LRP8/APOER2levels and related anti-apoptotic signalingpathways.
Cellular Location	Cytoplasm. Secreted. Endosome. Lysosome.Cell surface. Endoplasmic reticulum. Golgiapparatus. Note=Autocatalytic cleavage isrequired 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 andto the endosomes/lysosomes in the presenceof LDLR. The sorting to the cell surface and endosomes is required in order to fully promote LDLR degradation
Tissue Location	Expressed in neuro-epithelioma, coloncarcinoma, hepatic and pancreatic cell lines, and in Schwann cells
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



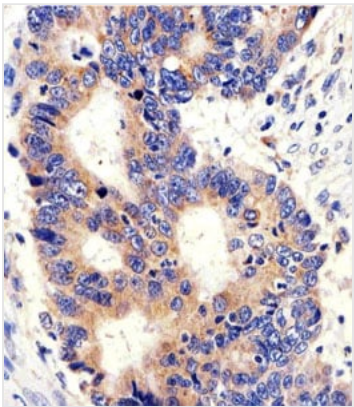
FCM/FACS (Flow Cytometry)

PCSK9 Antibody (C-term) (Cat. #AAA289872) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



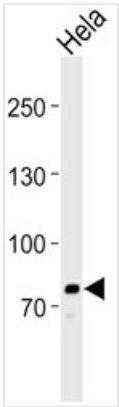
IHC (Immunohistochemistry)

PCSK9 Antibody (C-term) (RB18880) IHC analysis in formalin fixed and paraffin embedded human Colon carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PCSK9 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



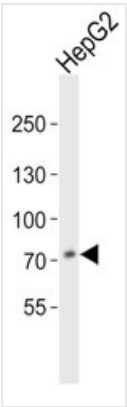
IHC (Immunohistochemisry)

Immunohistochemical analysis of paraffin-embedded H.colon carcinoma section using PCSK9 Antibody (C-term). AAA289872 was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



WB (Western Blot)

Western blot analysis of lysate from Hela cell line, using PCSK9 Antibody (C-term). AAA289872 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.



WB (Western Blot)

Western blot analysis of lysate from HepG2 cell line, using PCSK9 Antibody (C-term). AAA289872 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

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.