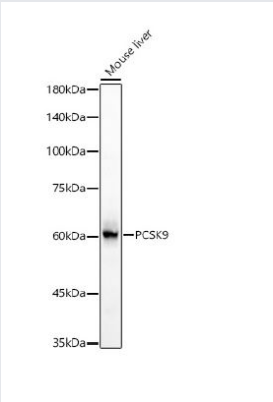
PCSK9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PCSK9, Polyclonal Antibody
Full Product Name	PCSK9 Rabbit pAb
Product Gene Name	anti-PCSK9 antibody
Product Synonym Names	FH3; PC9; Narc1; HCHOLA3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles. Ship: Ice Pack
Molecular Weight	74,823 Da
3D Structure	ModBase 3D Structure for Q80W65
Positive Samples	Mouse liver
Immunogen	Recombinant protein of mouse PCSK9.
Product Categories/Family for anti-PCSK9 antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PCSK9 antibody	Western Blot (WB)
Application Notes for anti-PCSK9 antibody	WB: 1:500-1:1000
Related Product Information for anti-PCSK9 antibody	Enables apolipoprotein binding activity; lipoprotein particle binding activity; and low-density lipoprotein particle receptor binding activity. Involved in several processes, including cellular response to insulin stimulus; cellular response to starvation; and regulation of neuron apoptotic process. Acts upstream of or within several processes, including low-density lipoprotein receptor particle metabolic process; regulation of low-density lipoprotein particle receptor catabolic process; and triglyceride metabolic process. Located in COPII-coated ER to Golgi transport vesicle; endoplasmic reticulum; and extracellular space. Is expressed in several structures, including alimentary system; cerebellum; genitourinary system; liver; and telencephalon. Human ortholog(s) of this gene implicated in familial hypercholesterolemia and hypobetalipoproteinemia. Orthologous to human PCSK9 (proprotein convertase subtilisin/kexin type 9).
Other Notes	Small volumes of anti-PCSK9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PCSK9 purchase	MBS9146445 is an antibody targeting PCSK9. Also known as PCSK9 Rabbit pAb. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-PCSK9 antibody
Western blot analysis of Mouse liver, using PCSK9 Rabbit pAb (MBS9146445) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCSK9. It may not necessarily be applicable to this product.

NCBI GI #	38257924
NCBI GeneID	100102
NCBI Accession #	Q80W65.2
UniProt Primary Accession #	Q80W65
UniProt Secondary Accession #	Q3UEH7; Q8BXW9; Q8CFT6; B1AZI4
UniProt Related Accession #	Q80W65
NCBI Official Full Name	Proprotein convertase subtilisin/kexin type 9
NCBI Official Synonym Full Names	proprotein convertase subtilisin/kexin type 9
NCBI Official Symbol	Pcsk9
NCBI Official Synonym Symbols	FH3; PC9; Narc1; HCHOLA3; AI415265; AI747682
UniProt Protein Name	Proprotein convertase subtilisin/kexin type 9
UniProt Synonym Protein Names	Neural apoptosis-regulated convertase 1; NARC-1; Proprotein convertase 9; PC9; Subtilisin/kexin-like protease PC9
Protein Family	Proprotein convertase subtilisin/kexin
UniProt Gene Name	Pcsk9
UniProt Synonym Gene Names	Narc1; NARC-1; PC9
UniProt Entry Name	PCSK9_MOUSE
NCBI Protein Information	proprotein convertase subtilisin/kexin type 9; NARC-1; proprotein convertase 9; proprotein convertase PC9; subtilisin/kexin-like protease PC9; neural apoptosis regulated convertase 1; neural apoptosis-regulated convertase 1

UniProt Comments for PCSK9	PCSK9: Crucial player in the regulation of plasma cholesterol homeostasis. Binds to low-density lipid 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. 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. 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. 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. Defects in PCSK9 are the cause of hypercholesterolemia autosomal dominant type 3 (HCHOLA3). A familial condition characterized by elevated circulating cholesterol contained in either low-density lipoproteins alone or also in very-low-density lipoproteins. Belongs to the peptidase S8 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; EC 3.4.21.-; Protease; Secreted; Secreted, signal peptide Cellular Component: Golgi apparatus; extracellular space; cell surface; rough endoplasmic reticulum; endoplasmic reticulum; lysosome; early endosome; extracellular region; ER to Golgi transport vesicle; perinuclear region of cytoplasm; cytoplasm; late endosome; plasma membrane; endosome Molecular Function: peptidase activity; sodium channel inhibitor activity; very-low-density lipoprotein binding; protein self-association; hydrolase activity; low-density lipoprotein receptor binding; serine-type peptidase activity; serine-type endopeptidase activity; low-density lipoprotein binding; apolipoprotein binding; apolipoprotein receptor binding Biological Process: steroid metabolic process; cholesterol metabolic process; lysosomal transport; apoptosis; positive regulation of receptor internalization; lipoprotein metabolic process; regulation of low-density lipoprotein receptor catabolic process; cellular response to starvation; proteolysis; neuron differentiation; protein autoprocessing; cholesterol homeostasis; triacylglycerol metabolic process; cellular response to insulin stimulus; phospholipid metabolic process; positive regulation of neuron apoptosis; regulation of neuron apoptosis; negative regulation of receptor recycling; low-density lipoprotein receptor catabolic process; protein processing; regulation of receptor activity; lipid metabolic process; low-density lipoprotein receptor metabolic process
Research Articles on PCSK9	**1.** data revealed a plausible new role of AnxA2 in the reduction of PCSK9 protein levels via a translational mechanism.
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