

Human Proprotein Convertase Subtilisin (Kexin Type 9) ELISA Kit | PCSK9 elisa kit

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CATALOG #
AAA266525

REACTIVITY
Human

PRODUCT SYNONYMS

Proprotein Convertase Subtilisin (Kexin Type 9); Human Proprotein Convertase Subtilisin (Kexin Type 9) ELISA Kit; PCSK9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	sandwich
Samples	cell culture supernates, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<10pg/ml
Detection Target	Proprotein Convertase Subtilisin (Kexin Type 9)
Immunogen Sequence	369
Cross-Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)

ADDITIONAL INFORMATION

Related Product Information for PCSK9 elisa kit

This Human Proprotein Convertase Subtilisin (Kexin Type 9) ELISA Kit is intended for quantitative detection of human PCSK9 in cell culture supernates, cell lysates, serum and plasma (heparin, EDTA). Strip well format. Reagents for up to 96 tests.

This human PCSK9 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for PCSK9 has been precoated onto 96-well plates. Standards (NSO, S153-Q692) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for PCSK9 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human PCSK9 amount of sample captured in plate.

The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. Expression system for standard: Proprotein convertase subtilisin/kexin type 9, also known as PCSK9, is an enzyme that 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. By genomic sequence analysis, the PCSK9 gene was mapped to chromosome 1p32. 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. Reduced LDLR levels result in decreased metabolism of low-density lipoproteins (LDL), which could lead to hypercholesterolemia. PCSK9 may also have a role in the differentiation of cortical neurons.

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
Molecular Weight	74,286 Da
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; subtilisin/kexin-like protease PC9; neural apoptosis regulated convertase 1; convertase subtilisin/kexin type 9 preproprotein
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/human-elisa-kits/proprotein-convertase-subtilisin-kexin-type-9/266525>