

Human PCSK9 ELISA Kit | PCSK9 elisa kit

PCSK9 (Human) OmniKine ELISA Kit

CATALOG #
AAA30736

REACTIVITY
Human

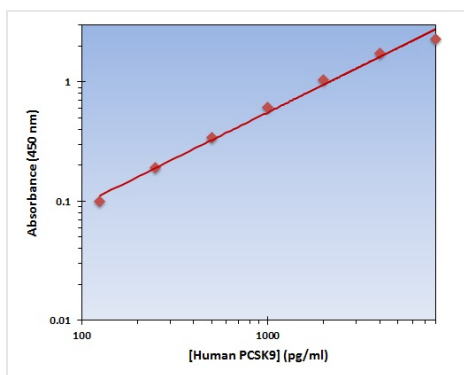
PRODUCT SYNONYMS

PCSK9; PCSK9 (Human) OmniKine ELISA Kit; Proprotein convertase subtilisin/kexin type 9; Neural apoptosis-regulated convertase 1; NARC-1; PC9; Subtilisin/kexin-like protease PC9; NARC1; PSEC0052; PCSK9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The OmniKine Human Leptin ELISA is capable of recognizing both recombinant and naturally produced Human Leptin proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 5% cross reactivity.
Form/Format	12 x 8-Well Microstrips
Sequence Length	692
Assay Type	Quantitative Sandwich
Sensitivity	63-4000 pg/ml.
Preparation and Storage	Store entire kit at 4 degree C until use. Kit expiration is 3 months from date of shipment.

IMAGES



Application Data

The OmniKine Human PCSK9 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human PCSK9 proteins within the range of 125-8000 pg/ml.

ADDITIONAL INFORMATION

Related Product Information for PCSK9 elisa kit

Principle of the Assay: The OmniKine Human Leptin ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Leptin concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human Leptin while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Human Leptin, also known as Obesity Factor, is a 167 amino acid cytokine protein encoded by the LEP gene located at locus 7q31.3 on chromosome 7. Leptin may function as part of a signaling pathway that acts to regulate the size of the body fat depot. An increase in the level of LEP may act directly or indirectly on the CNS to inhibit food intake and/or regulate energy expenditure as part of a homeostatic mechanism to maintain constancy of the adipose mass. Defects in LEP may be a cause of obesity, a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the results of excessive accumulation of body fat. Leptin also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in the gene and/or its regulatory regions may cause severe obesity and morbid obesity with hypogonadism as well as development of type 2 diabetes mellitus.

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	20,827 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
UniProt Protein Name	Proprotein convertase subtilisin/kexin type 9
UniProt Gene Name	PCSK9
UniProt Synonym Gene Names	NARC1; NARC-1; PC9

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://stage.aaabiotech.com/human-elisa-kits/pcsk9/30736>