

Human KLK1 ELISA Kit | KLK1 elisa kit

Human KLK1 PicoKine ELISA Kit

CATALOG #
AAA45236

REACTIVITY
Human

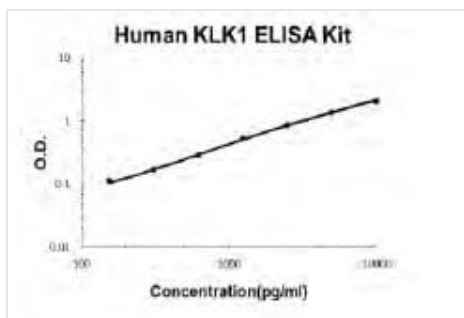
PRODUCT SYNONYMS

KLK1; Human KLK1 PicoKine ELISA Kit; Kallikrein-1; kallikrein 1; Glandular kallikrein 1; hK1; Kallikrein 1 renal/pancreas/salivary; Kallikrein serine protease 1; Kidney/pancreas/salivary gland kallikrein; KLK1_HUMAN; Klk6; KLKR; Tissue kallikrein; KLK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human KLK1
Sequence Length	262
Samples	Cell culture supernates, cell lysates, serum and plasma(heparin, edta)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess interassay precision.
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.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for KLK1 elisa kit	Principle of the Assay: The Picokine™ Human KLK1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human KLK1 with a 96-well strip plate that is pre-coated with antibody specific for KLK1. The detection antibody is a biotinylated antibody specific for KLK1. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human KLK1 with immunogen: Expression system for standard: NSO; Immunogen sequence: I25-S262. The kit is analytically validated with ready to use reagents. To measure Human KLK1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human KLK1 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human KLK1 in the sample. Background/Introduction: Kallikrein-1, also known as tissue kallikrein, is a protein that in humans is encoded by the KLK1 gene. This serine protease generates Lysbradykinin by specific proteolysis of kininogen-1. KLK1 is a member of the peptidase S1 family. Its gene is mapped to 19q13.3. In all, it has got 262-amino acids which contain a putative signal peptide, followed by a short activating peptide and the protease domain. The protein is mainly found in kidney, pancreas, and salivary gland, showing a unique pattern of tissue-specific expression relative to other members of the family. KLK1 is implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	269849612
NCBI GeneID	3816
UniProt Accession #	P06870; Q66US9; Q86U61; Q8TCV8; Q9BS53; Q9NQU4; Q9UD19; Q9UMJ1
Molecular Weight	23,835 Da
NCBI Official Full Name	Kallikrein-1
NCBI Official Synonym Full Names	kallikrein 1
NCBI Official Symbol	KLK1
NCBI Official Synonym Symbols	hK1; KLKR; Klk6
NCBI Protein Information	kallikrein-1; tissue kallikrein; glandular kallikrein 1; kallikrein serine protease 1; kallikrein 1, renal/pancreas/salivary; kidney/pancreas/salivary gland kallikrein
UniProt Protein Name	Kallikrein-1
UniProt Gene Name	KLK1
UniProt Entry Name	KLK1_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.