

Human KLK12 PicoKine ELISA Kit | KLK12 elisa kit

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CATALOG #
AAA46146

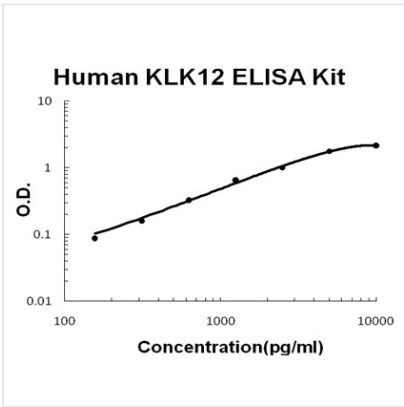
REACTIVITY
Human

PRODUCT SYNONYMS

KLK12 PicoKine; Human KLK12 PicoKine ELISA Kit; Kallikrein-12; DKFZp686H1078; Kallikrein like protein 5; Kallikrein related peptidase 12; Kallikrein12; KLK 12; KLK L5; KLK12; KLKL5; MGC42603; kallikrein-related peptidase 12; KLK12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human KLK12
Sequence Length	254
Assay Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human KLK12 in cell culture supernates, cell lysates, tissue homogenates, serum and plasma(heparin, EDTA).
Immunogen	NSO, A18-N248
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human KLK12 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, cell lysates, tissue homogenates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human KLK12 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 1409 3882 6756 1523 4129 6526 Standard deviation 73.26 213.51 405.36 89.85 251.86 443.76 CV(%) 5.2 5.5 6.0 5.9 6.1 6.8
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.035 0.088 0.159 0.328 0.653 1.002 1.752 2.150
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human KLK12 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for KLK12 elisa kit	Principle of the assay: Human KLK12 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for KLK12 has been precoated onto 96-well plates. Standards (NSO, A18-N248) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for KLK12 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 KLK12 amount of sample captured in plate. Background: Kallikrein-12 is a protein that in humans is encoded by the KLK12 gene. It belongs to the kallikrein subgroup of serine proteases, which have diverse physiologic functions in many tissues. KLK12 is expressed primarily in salivary gland, stomach, uterus, trachea, prostate, thymus, lung, colon, brain, breast, and thyroid gland and at lower levels in testis, pancreas, small intestine, and spinal cord. The expression of KLK12 is downregulated at the mRNA level in breast cancer tissues and is upregulated by steroid hormones in breast and prostate cancer cell lines.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9665236
NCBI GeneID	43849
NCBI Accession #	NP_062544.1
NCBI GenBank Nucleotide #	NM_019598.2
UniProt Accession #	Q9UKR0; Q9UKR1; Q9UKR2
Molecular Weight	11,984 Da
NCBI Official Full Name	kallikrein-12 isoform 1
NCBI Official Synonym Full Names	kallikrein related peptidase 12
NCBI Official Symbol	KLK12
NCBI Official Synonym Symbols	KLKL5; KLK-L5
NCBI Protein Information	kallikrein-12
UniProt Protein Name	Kallikrein-12
UniProt Gene Name	KLK12

UniProt Synonym Gene Names	KLKL5; KLK-L5
UniProt Entry Name	KLK12_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/klk12-picokine/46146>