

Human KLK8/Kallikrein-8 PicoKine ELISA Kit | KLK8 elisa kit

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CATALOG #
AAA46154

REACTIVITY
Human

PRODUCT SYNONYMS

KLK8/Kallikrein-8 PicoKine; Human KLK8/Kallikrein-8 PicoKine ELISA Kit; Kallikrein-8; Brain serine protease 1; BSP1; hK8; HNP; HPN; Kallikrein 8 (neuropsin/ovasin); Kallikrein related peptidase 8; Kallikrein8; KLK 8; Klk8; KLK8 protein type 1; KLK8 protein type 2; KLK8_HUMAN; Neuropsin; neuropsin type 1; Neuropsin type 1; included; Neuropsin type 2; mouse; homolog of; NP; NRPN; Ovasin; PRO322; Protease serine 19; PRSS 19; PRSS19; Serine protease 19; Serine protease kallikrein; Serine protease kallikrein/ovasin/neuropsin; Serine protease TADG 14; Serine protease TADG-14; Serine protease TADG14; TADG 14; TADG14; Tumor associated differentially expressed gene 14; Tumor associated differentially expressed gene 14 protein; Tumor-associated differentially expressed gene 14 protein; UNQ283 ; kallikrein-related peptidase 8; KLK8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human KLK8
Sequence Length	139
Assay Range	156pg/ml-10000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human KLK8 in cell culture supernates, cell lysates, tissue homogenates, serum and plasma(heparin, EDTA).
Immunogen	NSO, Q29-G260
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human KLK8 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 KLK8 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) 1468 3882 6352 1625 4190 6526 Standard deviation 67.53 260.1 349.4 95.9 301.7 417.7 CV(%) 4.6 6.7 5.5 5.9 7.2 6.4
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.002 0.115 0.221 0.408 0.692 1.106 1.755 2.485
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.

IMAGES



Standard Curve (Sample)
Human KLK8/Kallikrein-8 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for KLK8 elisa kit	Principle of the assay: Human KLK8 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for KLK8 has been precoated onto 96-well plates. Standards(NSO, Q29-G260) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for KLK8 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 KLK8 amount of sample captured in plate. Background: Kallikrein-8 is a protein that in humans is encoded by the KLK8 gene. Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Alternate splicing of this gene results in four transcript variants encoding four different isoforms. The isoforms exhibit distinct patterns of expression that suggest roles in brain plasticity and ovarian cancer.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	527121930
NCBI GeneID	11202
NCBI Accession #	NP_001268360.1
NCBI GenBank Nucleotide #	NM_001281431.1
UniProt Accession #	O60259; Q5V9X1; Q5V9X2; Q8IW69; Q9HCB3; Q9NR68; Q9NR69; Q9UIL9; Q9UQ47
Molecular Weight	3,653 Da
NCBI Official Full Name	kallikrein-8 isoform 5
NCBI Official Synonym Full Names	kallikrein related peptidase 8
NCBI Official Symbol	KLK8
NCBI Official Synonym Symbols	NP; HNP; NRPN; PRSS19; TADG14
NCBI Protein Information	kallikrein-8
UniProt Protein Name	Kallikrein-8
UniProt Gene Name	KLK8
UniProt Synonym Gene Names	NRPN; PRSS19; TADG14; hK8; NP
UniProt Entry Name	KLK8_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.