

Human Kallikrein-12 (KLK12) ELISA Kit

Catalog No: #EK10200



Package Size: #EK10200-1 48T #EK10200-2 96T

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Description

Product Name	Human Kallikrein-12 (KLK12) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DKFZp686H1078; KLK-L5; KLKL5; MGC42603; kallikrein 12 kallikrein-like protein 5
Accession No.	Q9UKR0
Uniprot	Q9UKR0
GeneID	43849;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:12.35-1000 ng/mL

Sensitivity:7.14 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate KLK12 in samples. An antibody specific for KLK12 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any KLK12 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLK12 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of KLK12 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: Kallikrein-12 is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Alternate splicing of this gene results in three transcript variants encoding different isoforms. In the second mRNA form, the last exon is split into 2 separate exons with an additional intervening intron, producing a deduced 254-amino acid protein with a predicted molecular mass of 27.1 kD. In the third mRNA form, the fourth exon is missing, producing a deduced 111-amino acid protein with a molecular mass of 12 kD. RT-PCR demonstrated that 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.

Note: This product is for in vitro research use only