

## Human Kallikrein-4 (KLK4) ELISA Kit

Catalog No: #EK10197



Package Size: #EK10197-1 48T #EK10197-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Human Kallikrein-4 (KLK4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	A12A1; ARM1; EMSP; EMSP1; KLK-L1; MGC116827; MGC116828; PROSTASE; PRSS17; PSTS; androgen-regulated message 1 enamel matrix serine protease 1 kallikrein 4 (prostase; enamel matrix; prostate) kallikre
Accession No.	Q9Y5K2
Uniprot	Q9Y5K2
GeneID	9622;
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:0.156-10 ng/mL

Sensitivity:0.049 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:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate KLK4 in samples. An antibody specific for KLK4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKLK4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLK4 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 KLK4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**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.

KLK4 was predominantly expressed in nuclei of basal cells in the prostate epithelium, in keeping with its distribution in prostate cancer cells in vitro. Adenovirus-mediated KLK4 expression dramatically induced proliferation of prostate cancer cells, at least in part, through significant alterations in cell cycle regulatory gene expression. Consistent with this data, small interfering RNA-mediated knockdown of endogenous KLK4 in LNCaP prostate cancer cells inhibited cell growth.

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Note: This product is for in vitro research use only