Human Kallikrein 10 (KLK10) ELISA Kit

Catalog No: #EK10202

Package Size: #EK10202-1 48T #EK10202-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Kallikrein 10 (KLK10) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	NES1; PRSSL1; breast normal epithelial cell associated serine protease|kallikrein 10|normal epithelial cell-specific 1|protease; serine-like; 1
Accession No.	O43240
Uniprot	O43240
GeneID	5655;
Storage	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. 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).

Application Details

Detect Range:123.46-10000 pg/mL

Sensitivity:48.3 pg/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 KLK10 in samples. An antibody specific for KLK10 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKLK10 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLK10 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 KLK10 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:KLK10 is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its encoded protein is secreted and may play a role in suppression of tumorigenesis in breast and prostate cancers. Alternate splicing of this gene results in multiple transcript variants encoding the same protein.

The deduced 276-amino acid protein contains a putative signal peptide, followed by a short activating peptide and the protease domain, which includes the catalytic triad of his86, asp137, and ser229. KLK10 also contains 12 conserved cysteines in its protease domain that are expected to form 6 disulfide bonds, as in other serine proteases. RT-PCR detected variable levels of KLK10 expression in nearly all of the 35 adult and fetal tissues examined.

Note: This product is for in vitro research use only