Human Kallikrein-9 (KLK9) ELISA Kit

Catalog No: #EK10191

Package Size: #EK10191-1 48T #EK10191-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Kallikrein-9 (KLK9) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KLK-L3; KLKL3; kallikrein 9|kallikrein-like protein 3
Accession No.	Q9UKQ9
Uniprot	Q9UKQ9
GeneID	284366;
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:0.156-10 ng/mL

Sensitivity:0.055 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 KLK9 in samples. An antibody specific for KLK9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKLK9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLK9 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 KLK9 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:KLK9 belongs to the kallikrein subgroup of serine proteases, which have diverse physiologic functions in many tissues.KLK9 is primarily expressed in thymus, testis, spinal cord, cerebellum, trachea, mammary gland, prostate, brain, salivary gland, ovary, and skin.KLK9 is under steroid hormone regulation in ovarian and breast cancer cell lines and is a potential prognostic marker for early-stage ovarian and breast cancer patients.Based on homology between the human and mouse kallikrein loci, Yousef and Diamandis defined a 300-kb human kallikrein gene region on chromosome 19q13.3-q13.4. Within this region, they identified a new kallikrein gene, KLK9, which they designated KLKL3. The deduced 250-amino acid KLK9 protein has a predicted molecular mass of 27.5 kD and shares 40% amino acid sequence identity with KLK11.

Note: This product is for in vitro research use only