

Human Kallikrein 1 (KLK1) ELISA Kit

Catalog No: #EK10203



Package Size: #EK10203-1 48T #EK10203-2 96T

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Description

Product Name	Human Kallikrein 1 (KLK1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KLKR; Klk6; hK1; glandular kallikrein 1 kallikrein 1; renal/pancreas/salivary kallikrein serine protease 1 tissue kallikrein
Accession No.	P06870
Uniprot	P06870
GeneID	3816;
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:74.07-6000 pg/mL

Sensitivity:27.51 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 KLK1 in samples. An antibody specific for KLK1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKLK1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLK1 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 KLK1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:KLK1, or tissue kallikrein is a serine protease that generates Lys-bradykinin by specific proteolysis of kininogen-1. Kallikrein 1 is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. This protein is functionally conserved in its capacity to release the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen. the deduced 262-amino acid KLK1 protein contains a putative signal peptide, followed by a short activating peptide and the protease domain. The protease domain contains the catalytic triad of his65, asp120, and ser214. RT-PCR detected variable expression of KLK1 in most of the 35 tissues examined. Highest expression was in pancreas, salivary gland, thyroid, parotid gland, fetal and adult skin, kidney, and liver.

Note: This product is for in vitro research use only