



Product Information Sheet

Human Kallikrein 3 ELISA Kit

Catalog No. EK0816
Size 96T
Range 0.312ng/ml-20ng/ml
Sensitivity < 10 pg/ml

Specificity

No detectable cross-reactivity with any other cytokine.

Storage

Store at 4°C for frequent use, at -20°C for infrequent use.

Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

Expiration

Four months at 4°C and eight months at -20°C.

Application

For quantitative detection of human KALLIKREIN 3 in sera, body fluids, tissue lysates or cell culture supernates.

Principle

Human KALLIKREIN 3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. Human KALLIKREIN 3 specific-specific polyclonal antibodies were precoated onto 96-well plates. The human specific detection polyclonal antibodies were biotinylated. The test samples and biotinylated detection antibodies were added to the wells subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human KALLIKREIN 3 amount of sample captured in plate.

Kit CoKallikrein 3nents

1. Lyophilized recombinant human KALLIKREIN 3 standard: 20ng/tubex2.
2. One 96-well plate precoated with anti- human KALLIKREIN 3 antibody.
3. Sample diluent buffer: 30 ml
4. Biotinylated anti- human KALLIKREIN 3 antibody : 130µl, dilution 1:100.
5. Antibody diluent buffer: 12ml.
6. Avidin-Biotin-Peroxidase Complex (ABC) : 130µl,dilution 1:100.
7. ABC diluent buffer: 12ml.
8. TMB color developing agent: 10ml.
9. TMB stop solution: 10ml.

Material Required But Not Provided

1. Microplate reader in standard size.
2. Automated plate washer.
3. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection.
4. Clean tubes and Eppendorf tubes.
5. Washing buffer (neutral PBS or TBS).

Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl; 450µl of purified

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acetic acid or 700µl of concentrated hydrochloric acid to 1000ml H₂O and adjust pH to 7.2-7.6. Finally, adjust the total

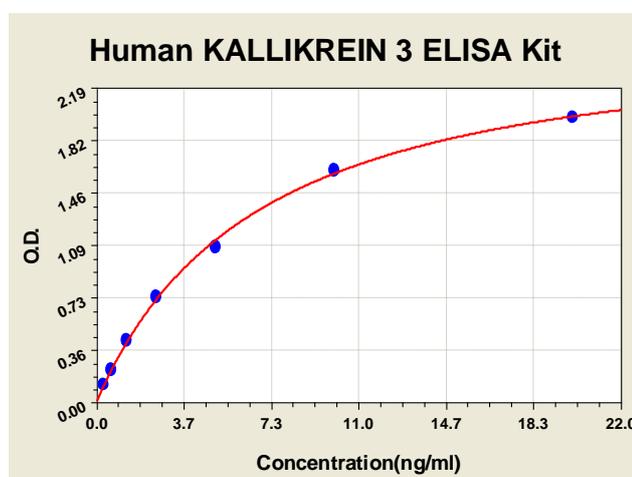
volume to 1L.

Preparation of 0.01 M **PBS**: Add 8.5g sodium chloride, 1.4g Na₂HPO₄ and 0.2g NaH₂PO₄ to 1000ml distilled water and adjust pH to 7.2-7.6. Finally, adjust the total volume to 1L.

Notice for Application of Kit

1. Before using Kit, spin tubes and bring down all coKallikrein 3 nents to bottom of tube.
2. Duplicate well assay was recommended for both standard and sample testing.
3. Don't let 96-well plate dry, dry plate will inactivate active coKallikrein 3 nents on plate.
4. In order to avoid marginal effect of plate incubation due to temperature difference (reaction may be stronger in the marginal wells), it is suggested that the diluted ABC and TMB solution will be pre-warmed in 37°C for 30 min before using.

Human KALLIKREIN 3 ELISA Kit-1X96 Well Plate Image



Background

Prostate-specific antigen (PSA), also known as kallikrein III, seminin, semenogelase, γ -seminoprotein and P-30 antigen) is a 34 kD glycoprotein manufactured almost exclusively by the prostate gland; PSA is produced for the ejaculate where it liquifies the semen in the seminal coagulum and allows sperm to swim freely.¹It is also believed to be instrumental in dissolving the cervical mucous cap, allowing the entry of sperm.²It is a serine protease enzyme, the gene of which is located on the nineteenth chromosome (19q13).³

Reference

- 1、Balk SP, Ko YJ, Bublely GJ (January 2003). "Biology of prostate-specific antigen". J. Clin. Oncol. 21 (2): 383–91. doi:10.1200/JCO.2003.02.083.
- 2、edited by Wayne J.G. Hellstrom. (1999). "Chapter 8: What is the prostate and what is its function?". American Society of Andrology Handbook. San Francisco, Calif.: American Society of Andrology.
- 3、Lilja H (November 2003). "Biology of prostate-specific antigen". Urology 62 (5 Suppl 1): 27–33. doi:10.1016/S0090-4295(03)00775-1.

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