Datasheet for ABIN1889396

TFF3 ELISA Kit

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Overview

Quantity:	96 tests
Target:	TFF3
Binding Specificity:	AA 22-80
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TFF3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Saliva, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: E22-Y80
Specificity:	Expression system for standard: E.coli Immunogen sequence: E22-Y80
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Target:	TFF3
Alternative Name:	TFF3 (TFF3 Products)
Background:	Protein Function: Involved in the maintenance and repair of the intestinal mucosa. Promotes the mobility of epithelial cells in healing processes (motogen). . Background: Trefoil factor 3 is a protein that in humans is encoded by the TFF3 gene. It is mapped to 21q22.3. Members of the trefoil family can interact with mucins and have an influence on mucus viscosity. They also promote migration of epithelial cells, are linked to antiapoptosis, induce cell scattering, trigger chemotaxis, and participate in immune responses. This gene is a marker of columnar epithelium and is expressed in a variety of tissues including goblet cells of the intestines and colon. It has been found that TFF3 is the most highly upregulated gene in 19 poorly differentiated endometrioid endometrial carcinomas (G3-EECs) compared with normal endometrium biopsies. Synonyms: Trefoil factor 3,Intestinal trefoil factor,hITF,Polypeptide P1.B,hP1.B,TFF3,ITF, TFI, Full Gene Name: Trefoil factor 3 Cellular Localisation: Secreted, extracellular space, extracellular matrix . Cytoplasm.
Gene ID:	7033
UniProt:	Q07654

Application Details

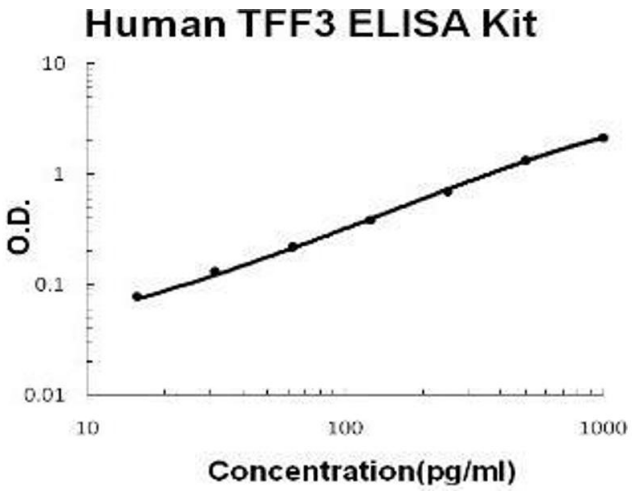
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Contains 1 P-type (trefoil) domain. Tissue Specificity: Expressed in goblet cells of the intestines and colon (at protein level). Expressed by goblet cells of small and large intestinal epithelia and also by the uterus. Also expressed in the hypothalamus where it is detected in paraventricular, periventricular and supraoptic nuclei (at protein level). .

Application Details

Plate:	Pre-coated
Protocol:	human TFF3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TFF3 has been precoated onto 96-well plates. Standards(E.coli, E22-Y80) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TFF3 is added 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 TFF3 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human TFF3 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma(heparin, EDTA), saliva or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human TFF3 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 164, Standard deviation: 7.38, CV(%): 4.5 • Sample 2: n=16, Mean(pg/ml): 425, Standard deviation: 22.1, CV(%): 5.2 • Sample 3: n=16, Mean(pg/ml): 631, Standard deviation: 25.87, CV(%): 4.1, • Sample 1: n=24, Mean(pg/ml): 152, Standard deviation: 9.6, CV(%): 6.3 • Sample 2: n=24, Mean(pg/ml): 395, Standard deviation: 28, CV(%): 7.1 • Sample 3: n=24, Mean(pg/ml): 640, Standard deviation: 37.76, CV(%): 5.9
Restrictions:	For Research Use only

Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Human TFF3 PicoKine ELISA Kit standard curve

