

Datasheet for ABIN2859229

TFPI2 ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	96 tests
Target:	TFPI2
Binding Specificity:	AA 23-235
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TFPI2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: D23-F235
Specificity:	Expression system for standard: NSO Immunogen sequence: D23-F235
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:	TFPI2
Alternative Name:	TFPI2 (TFPI2 Products)
Background:	<p>Protein Function: May play a role in the regulation of plasmin-mediated matrix remodeling. Inhibits trypsin, plasmin, factor VIIa/tissue factor and weakly factor Xa. Has no effect on thrombin. .</p> <p>Background: TFPI2, also called Tissue factor pathway inhibitor 2, is a protein that in humans is encoded by the TFPI2 gene. It is mapped to 7q21.3. This gene encodes a member of the Kunitz-type serine proteinase inhibitor family. The protein can inhibit a variety of serine proteases including factor VIIa/tissue factor, factor Xa, plasmin, trypsin, chymotrypsin and plasma kallikrein. This gene has been identified as a tumor suppressor gene in several types of cancer. Qualitative PCR and microarray analyses showed that expression of TFPI2 was inversely correlated with that of MIR616 in prostate cancer cell lines, primary tumors of various grades, and normal tissue.</p> <p>Synonyms: Tissue factor pathway inhibitor 2,TFPI-2,Placental protein 5,PP5,TFPI2,</p> <p>Full Gene Name: Tissue factor pathway inhibitor 2</p> <p>Cellular Localisation: Secreted.</p>
Gene ID:	7980
UniProt:	P48307

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:	Tissue Specificity: Umbilical vein endothelial cells, liver, placenta, heart, pancreas, and maternal serum at advanced pregnancy.
Plate:	Pre-coated

Application Details

Protocol: human TFPI2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TFPI2 has been precoated onto 96-well plates. Standards(NSO, D23-F235) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TFPI2 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 TFPI2 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human TFPI2 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 or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human TFPI2 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 1.75, Standard deviation: 0.074, CV(%): 4.2
- Sample 2: n=16, Mean(ng/ml): 3.28, Standard deviation: 0.154, CV(%): 4.7
- Sample 3: n=16, Mean(ng/ml): 6.32, Standard deviation: 0.354, CV(%): 5.6,
- Sample 1: n=24, Mean(ng/ml): 1.64, Standard deviation: 0.08, CV(%): 4.9
- Sample 2: n=24, Mean(ng/ml): 3.09, Standard deviation: 0.164, CV(%): 5.3
- Sample 3: n=24, Mean(ng/ml): 6.47, Standard deviation: 0.395, CV(%): 6.1

Restrictions: For Research Use only

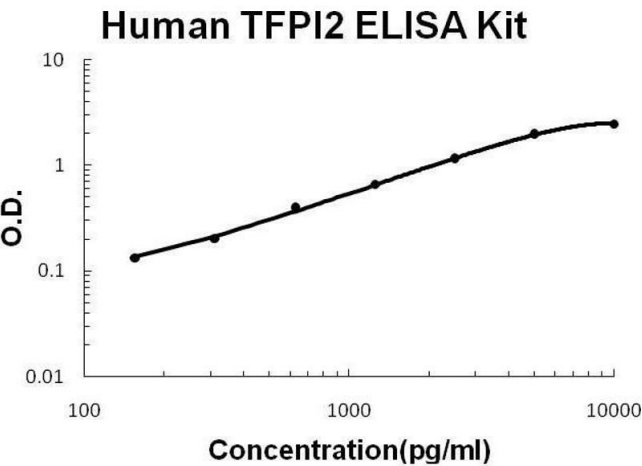
Handling

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 TFPI2 PicoKine ELISA Kit standard curve