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Datasheet for ABIN2859226

## TFPI ELISA Kit

### 1 Image

#### Overview

Quantity:	96 tests
Target:	TFPI
Binding Specificity:	AA 29-306
Reactivity:	Mouse
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 Mouse TFPI
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: L29-N306
Specificity:	Expression system for standard: NSO Immunogen sequence: L29-N306
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

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Sensitivity: <10pg/mL

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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

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## Target Details

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Target: TFPI

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Alternative Name: TFPI ([TFPI Products](#))

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Background: Protein Function: Inhibits factor X (X(a)) directly and, in a Xa-dependent way, inhibits VIIa/tissue factor activity, presumably by forming a quaternary Xa/LACI/VIIa/TF complex. It possesses an antithrombotic action and also the ability to associate with lipoproteins in plasma (By similarity). .

Background: TFPI(Tissue factor pathway inhibitor),also known as EPI, LACI or TFPI1, is a single-chain polypeptide which can reversibly inhibit Factor Xa (Xa) and Thrombin (Factor IIa). The gene for TFPI is located on chromosome 2q31-q32.1, and has nine exons which span 70 kb. TFPI consists of a highly negatively-charged amino-terminus, three tandemly-linked Kunitz domains, and a highly positively-charged carboxy-terminus. TFPI contributes significantly to the inhibition of Xa in vivo, despite being present at concentrations of only 2.5 nM.

Synonyms: Tissue factor pathway inhibitor,TFPI,Extrinsic pathway inhibitor,EPI,Lipoprotein-associated coagulation inhibitor,LACI,Tfpi,

Full Gene Name: Tissue factor pathway inhibitor

Cellular Localisation: Secreted.

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Gene ID: 21788

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UniProt: [O54819](#)

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## Application Details

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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.

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Comment: Tissue Specificity: Isoform alpha is expressed in heart and spleen, isoform beta in heart and lung.

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Plate: Pre-coated

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## Application Details

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**Protocol:** mouse TFPI ELISA Kit is based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TFPI has been precoated onto 96-well plates. Standards(NSO, L29-N306) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TFPI is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex is added and unbound conjugates are washed away with PBS or TBS buffer. HRP substrate TMB are used to visualize HRP enzymatic reaction. TMB is 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 mouse TFPI 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 mouse TFPI 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse TFPI standard solution and each sample be measured in duplicate.

**Assay Precision:**

- Sample 1: n=16, Mean(ng/ml): 1.05, Standard deviation: 0.048, CV(%): 4.6
- Sample 2: n=16, Mean(ng/ml): 2.91, Standard deviation: 0.122, CV(%): 4.2
- Sample 3: n=16, Mean(ng/ml): 5.34, Standard deviation: 0.203, CV(%): 3.8,
- Sample 1: n=24, Mean(ng/ml): 1.21, Standard deviation: 0.076, CV(%): 6.3
- Sample 2: n=24, Mean(ng/ml): 3.45, Standard deviation: 0.193, CV(%): 5.6
- Sample 3: n=24, Mean(ng/ml): 5.82, Standard deviation: 0.285, CV(%): 4.9

**Restrictions:** For Research Use only

## Handling

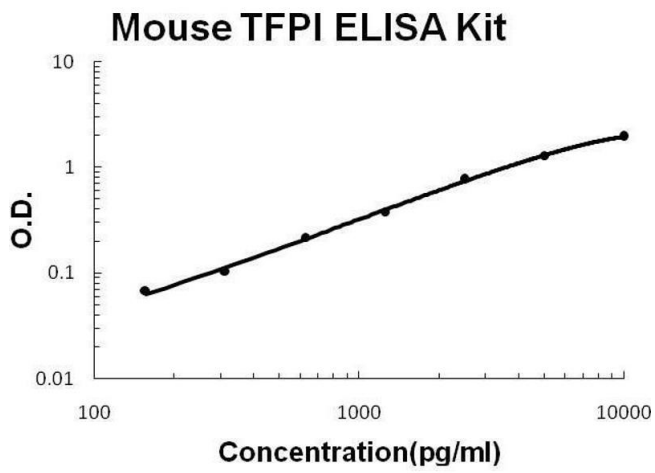
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**Handling Advice:** Avoid multiple freeze-thaw cycles.

**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.** Mouse TFPI PicoKine ELISA Kit standard curve