



[Go to Product page](#)

Datasheet for ABIN1672819

PTX3 ELISA Kit

1 Image

5 Publications

Overview

Quantity:	96 tests
Target:	PTX3
Binding Specificity:	AA 18-381
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human PTX3/Pentraxin 3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (EDTA), Saliva
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: E18-S381
Specificity:	Expression system for standard: NSO Immunogen sequence: E18-S381
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: PTX3

Alternative Name: PTX3 ([PTX3 Products](#))

Background: Protein Function: Plays a role in the regulation of innate resistance to pathogens, inflammatory reactions, possibly clearance of self- components and female fertility. .

Background: PTX3(Pentraxin 3) is a member of the pentraxin superfamily. This super family characterized by cyclic multimeric structure. The PTX3 gene is mapped to 3q25.32. The predicted 381-amino acid PTX3 protein has homology to the pentraxin protein family. Significant levels of PTX3 were detected in plasma of neutropenic patients with systemic A. PTX3 is effective in preventing CMV infection and reactivation, as well as subsequent Aspergillus infection. PTX3 activates the classical pathway of complementactivation and facilitates pathogen recognition by macrophages and DCs.

Synonyms: Pentraxin-related protein PTX3,Pentaxin-related protein PTX3,Tumor necrosis factor alpha-induced protein 5,TNF alpha-induced protein 5,Tumor necrosis factor-inducible gene 14 protein,TSG-14,PTX3,TNFAIP5, TSG14,

Full Gene Name: Pentraxin-related protein PTX3

Cellular Localisation: Secreted.

Gene ID: 5806

UniProt: [P26022](#)

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.

Plate: Pre-coated

Protocol: human PTX3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for PTX3 has been precoated onto 96-

Application Details

well plates. Standards(NSO, E18-S381) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for PTX3 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 PTX3 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 20000pg/mL, 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL human PTX3 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(EDTA) or saliva to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human PTX3 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 3.5, Standard deviation: 0.22, CV(%): 6.3
- Sample 2: n=16, Mean(ng/ml): 7.8, Standard deviation: 0.45, CV(%): 5.8
- Sample 3: n=16, Mean(ng/ml): 15.7, Standard deviation: 1.0, CV(%): 6.4,
- Sample 1: n=24, Mean(ng/ml): 3.86, Standard deviation: 0.28, CV(%): 7.3
- Sample 2: n=24, Mean(ng/ml): 8.1, Standard deviation: 0.48, CV(%): 5.9
- Sample 3: n=24, Mean(ng/ml): 15.3, Standard deviation: 1.16, CV(%): 7.6

Restrictions: For Research Use only

Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

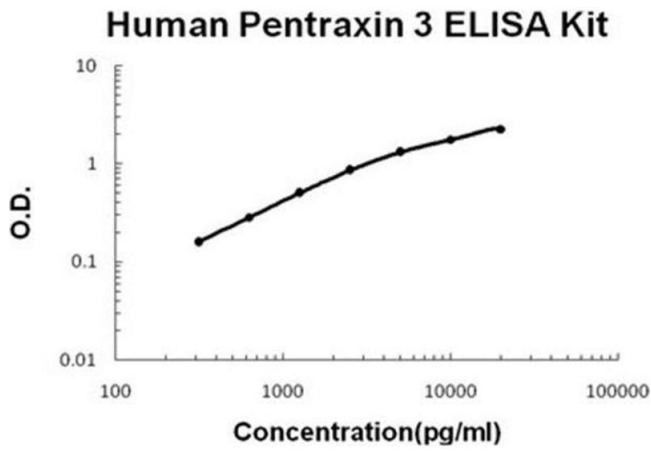
Storage: -20 °C, 4 °C

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

Expiry Date: 12 months

Publications

Product cited in: Benli, Ayyildiz, Cirrik, Koktürk, Cirakoglu, Noyan, Ayyildiz, Germiyanoglu: "The effect of tadalafil therapy on kidney damage caused by sepsis in a polymicrobial septic model induced in rats: a biochemical and histopathological study." in: **International braz j urol : official journal of the Brazilian Society of Urology**, Vol. 43, Issue 2, pp. 345-355, (2017) ([PubMed](#)).



ELISA

Image 1. Human PTX3/Pentraxin 3 PicoKine ELISA Kit standard curve