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## Datasheet for ABIN6730901 PF4 ELISA Kit

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#### Overview

Quantity:	96 tests
Target:	PF4
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	1.56 pg/mL - 100 pg/mL
Minimum Detection Limit:	1.56 pg/mL
Application:	ELISA
Product Details	
Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PF4 in
	human serum, platelet-poor plasma and cell culture supernates.
	We offer <b>validation data</b> (WB) <b>for the kit components</b> . So you can be sure to order a reliable ELISA kit product composed of high quality reagents.
Sample Type:	Cell Culture Supernatant, Platelet-Poor Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Platelet Factor 4 (PF4)
Cross-Reactivity (Details):	No significant cross-reactivity or interference between Platelet Factor 4 (PF4) and analogues was observed.
Sensitivity:	0.65 pg/mL

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## Product Details

#### Components:

- Pre-coated, ready to use 96-well strip plate, flat buttom
- Plate sealer for 96 wells
- Reference Standard
- Standard Diluent
- Detection Reagent A
- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

### Target Details

Target:	PF4
Abstract:	PF4 Products
UniProt:	P02776

### Application Details

Comment:	Information on standard material:
	The standard might be recombinant protein or natural protein, that will depend on the specific
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin
	300 in the standard as preservative.
	Information on reagents:
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash
	solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies:
	The provided antibodies and their host vary in different kits.
Sample Volume:	100 μL
Assay Time:	3 h
Plate:	Pre-coated

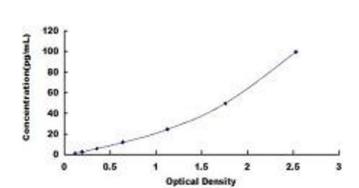
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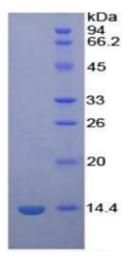
## Application Details

Protocol:	1. Prepare all reagents, samples and standards,
	2. Add 100 $\mu L$ standard or sample to each well. Incubate 1 hours at 37 °C,
	3. Aspirate and add 100 $\mu$ L prepared Detection Reagent A. Incubate 1 hour at 37 °C,
	4. Aspirate and wash 3 times,
	5. Add 100 $\mu$ L prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
	6. Aspirate and wash 5 times,
	7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
	8. Add 50µL Stop Solution. Read at 450nm immediately.
Reagent Preparation:	1. Bring all kit components and samples to room temperature (18-25 °C) before use.
	2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes a
	room temperature, shake gently (not to foam). The concentration of the standard in the stoc
	solution is 800pg/mL. Firstly dilute the stock solution to 100pg/mL and the diluted standard
	serves as the highest standard (100pg/mL). Then prepare 7 tubes containing 0.5 mL
	Standard Diluent and use the diluted standard to produce a double dilution series. Mix each
	tube thoroughly before the next transfer. Set up 7 points of diluted standard such as
	100pg/mL, 50pg/mL, 25pg/mL, 12.5pg/mL, 6.25pg/mL, 3.12pg/mL, 1.56pg/mL, and the last
	microcentrifuge tube with Standard Diluent is the blank as 0pg/mL.
	3. Detection Reagent A and Detection Reagent B - Briefly spin or centrifuge the stock Detection
	A and Detection B before use. Dilute to the working concentration with Assay Diluent A and E respectively (1:100).
	4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
	or distilled water to prepare 600 mL of Wash Solution (1x).
	5. TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not
	dump the residual solution into the vial again.
	Note:
	1. Making serial dilution in the wells directly is not permitted.
	2. Prepare standard within 15 minutes before assay. Please do not dissolve the reagents at 37 °C directly.
	3. Please carefully reconstitute Standards or working Detection Reagent A and B according to
	the instruction, and avoid foaming and mix gently until the crystals are completely dissolved.
	To minimize imprecision caused by pipetting, use small volumes and ensure that pipettors
	are calibrated. It is recommended to suck more than $10\mu L$ for once pipetting.
	<ol> <li>The reconstituted Standards, Detection Reagent A and Detection Reagent B can be used only once.</li> </ol>
	5. If crystals have formed in the Wash Solution concentrate (30x), warm to room temperature
	and mix gently until the crystals are completely dissolved.
	6. Contaminated water or container for reagent preparation will influence the detection result.
Sample Preparation:	It is recommended to use fresh samples without long storage, otherwise protein degradation
	and denaturationmay occur in these samples, leading to false results. Samples should
	therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤

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	samples should be slowly thawed and centrifuged toremove precipitates.
	<ul> <li>If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit.</li> </ul>
	<ul> <li>If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a</li> </ul>
	possibility of causing a deviation due to the introduced chemical substance. The
	recommended dilution factor is for reference only.
	Please estimate the concentration of the samples before performing the test. If the values
	are not in therange of the standard curve, the optimal sample dilution for the particular
	experiment has to be determined.Samples should then be diluted with PBS (pH =7.0-7.2).
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	target were tested 20 times on one plate, respectively.
	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of
	target were tested on 3 different plates, 8 replicates in each plate.
	CV(%) = SD/meanX100
	Intra-Assay: CV < 10%
	Inter-Assay: CV < 12%
Restrictions:	For Research Use only
Handling	
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and
	clothing protection when using this material.
Storage:	4 °C/-20 °C
Storage Comment:	1. For unopened kit: All reagents should be stored according to the labels on the vials. The
	Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored
	at -20 °C upon receipt, while the other reagents should be stored at 4 °C. 2. For opened kits: the remaining reagents must be stored according to the above storage
	conditions. In addition, please return the unused wells to the foil pouch containing the
	desiccant and seal the foil pouch with the zipper.
Expiry Date:	6 months
Expiry Date:	6 months
Expiry Date: Publications	6 months
	6 months Marfà, Morales-Ruiz, Oró, Ribera, Fernández-Varo, Jiménez: "Sipa111 is an early biomarker of





# kDa 100-70-44-33-27-22-18-14-10-

## ELISA

#### Image 1. Typical standard curve

#### SDS-PAGE

**Image 2.** SDS-PAGE of Protein Standard from the Kit (Highly purified E. coli-expressed recombinant human PF4).

#### Western Blotting

**Image 3.** Mouse Capture antibody from the kit in WB with Positive Control: Human Placenta lysate.

Please check the product details page for more images. Overall 6 images are available for ABIN6730901.

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