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## Datasheet for ABIN6976262 Surfactant Protein C ELISA Kit

2 Publications



### Overview

Quantity:	96 tests	
Target:	Surfactant Protein C (SFTPC)	
Reactivity:	Human	
Method Type:	Sandwich ELISA	
Detection Range:	0.41 ng/mL - 300 ng/mL	
Minimum Detection Limit:	0.41 ng/mL	
Application:	ELISA	
Product Details		
Purpose:	For the quantitative determination of human pulmonary surfactant-associated protein C (SP-C)	
	concentrations in serum, plasma, urine, cell culture supernates.	
Sample Type:	Cell Culture Supernatant, Plasma, Serum, Urine	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Specificity:	This assay has high sensitivity and excellent specificity for detection of human SP-C. No	
	significant cross-reactivity or interference between human SP-C and analogues was observed.	
	Note: Limited by current skills and knowledge, it is impossible for us to complete the cross-	
	reactivity detection between human SP-C and all the analogues, therefore, cross reaction may	
	still exist.	
Sensitivity:	0.41 ng/mL	

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## Product Details

## Components:

- Assay plate
- Standard
- HRP-avidin (100 x concentrate)
- Biotin-antibody (100 x concentrate)
- Sample Diluent
- HRP-avidin Diluent
- Biotin-antibody Diluent
- Wash Buffer (25 x concentrate)
- TMB Substrate
- Stop Solution
- Adhesive Strip

## Target Details

Target:	Surfactant Protein C (SFTPC)
Alternative Name:	SFTPC (SFTPC Products)
Background:	SFTPC
UniProt:	P11686

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.		
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Sample Volume:	100 µL		
Assay Time:	1 - 4.5 h		
Plate:	Pre-coated		
Protocol:	1. Prepare reagents, samples and standards as instructed.		
	2. Add 100 $\mu L$ standard or sample to each well. Incubate 2 hours at 37 °C.		
	3. Remove the liquid of each well, don't wash.		
	4. Add 100 $\mu$ L Biotin-antibody (1x) to each well. Incubate 1 hour at 37 °C.		
	5. Aspirate and wash 3 times.		
	6. Add 100 $\mu$ L HRP-avidin (1x) to each well. Incubate 1 hour at 37 °C		
	7. Aspirate and wash 5 times.		
	8. Add 90 μL of TMB Substrate to each well. Incubate for 15-30 minutes at 37 °C. Protect from light.		
	9. Add 50 $\mu L$ Stop Solution to each well. Read at 450 nm within 5 minutes.		
Reagent Preparation:	1. Biotin-antibody (1x) - Centrifuge the vial before opening. Biotin-antibody requires a 100-fold		
	dilution. A suggested 100-fold dilution is 10 $\mu L$ of Biotin-antibody + 990 $\mu L$ of Biotin-antibody		

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#### Diluent.

2. HRP-avidin (1x) - Cei	ntrifuge the vial before o	pening. HRP-avidin req	uires a 100-fold dilution. A
suggested 100-fold	dilution is 10 µL of HRP-a	avidin + 990 µL of HRP	-avidin Diluent.

- 3. Wash Buffer (1x) If crystals have formed in the concentrate, warm up to room temperature and mix gently until the crystals have completely dissolved. Dilute 20 mL of Wash Buffer Concentrate (25 x) into deionized or distilled water to prepare 500 mL of Wash Buffer (1 x).
- 4. Centrifuge the standard vial at 6000-10000rpm for 30s. Reconstitute the Standard with 1.0 ml of Sample Diluent. Do not substitute other diluents. This reconstitution produces a stock solution of 300 ng/ml. Mix the standard to ensure complete reconstitution and allow the standard to sit for a minimum of 15 minutes with gentle agitation prior to making dilutions. Pipette 200 µl of Sample Diluent into each tube (S0-S6). Use the stock solution to produce a 3-fold dilution series. Mix each tube thoroughly before the next transfer. The undiluted Standard serves as the high standard (300 ng/ml). Sample Diluent serves as the zero standard (0 ng/ml).

#### Note:

- Kindly use graduated containers to prepare the reagent. Please don't prepare the reagent directly in the Diluent vials provided in the kit.
- Bring all reagents to room temperature (18-25 °C) before use for 30 min.
- Prepare fresh standard for each assay. Use within 4 hours and discard after use.
- Making serial dilution in the wells directly is not permitted.
- Please carefully reconstitute Standards according to the instruction, and avoid foaming and mix gently until the crystals have 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 µL for once pipetting.
- Distilled water is recommended to be used to make the preparation for reagents. 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 (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates.
  - If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit.
  - If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a 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).

Note:

Recommend to dilute the serum or plasma samples with Sample Diluent (1:1000) before test.

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	The suggested 1000-fold dilution can be achieved by adding 5 $\mu$ L sample to 95 $\mu$ L of Sample	
	Diluent first, then complete the 1000-fold dilution by adding 5 $\mu L$ of this solution to 245 $\mu L$ of	
	Sample Diluent. The recommended dilution factor is for reference only. The optimal dilution	
	factor should be determined by users according to their particular experiments.	
Assay Precision:	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known	
	concentration were tested twenty times on one plate to assess.	
	Inter-assay Precision (Precision between assays): CV%<10% Three samples of known	
	concentration were tested in twenty assays to assess.	
Restrictions:	For Research Use only	
Handling		
Storage:	4 °C,-20 °C	
Storage Comment:	Unopened kit Store at 2 - 8°C. Do not use the kit beyond the expiration date. May be stored for	
	up to 1 month at 2 - 8°C. Coated assay Try to keep it in a sealed aluminum foil bag, plate and	
	avoid the damp. Standard May be stored for up to 1 month at 2 - 8° C. If Biotin-antibody don't	
	make recent use, better keep it store at HRP-avidin -20°C. Biotin-antibody Diluent Opened kit	
	HRP-avidin Diluent Sample May be stored for up to 1 month at 2 - 8°C. Diluent Wash Buffer	
	TMB Substrate Stop Solution *Provided this is within the expiration date of the kit.	
Expiry Date:	6 months	
Publications		
Product cited in:	Uhl, Vierkotten, Wagner, Burgstaller, Costa, Koch, Lindner, Meiners, Eickelberg, Königshoff: "	
	Preclinical validation and imaging of Wnt-induced repair in human 3D lung tissue cultures." in:	
	The European respiratory journal, (2015) (PubMed).	
	Ciccia, Accardo-Palumbo, Alessandro, Alessandri, Priori, Guggino, Raimondo, Carubbi, Valesini	
	Giacomelli, Rizzo, Triolo: "Interleukin-36? axis is modulated in patients with primary Sjögren's	
	syndrome." in: <b>Clinical and experimental immunology</b> , Vol. 181, Issue 2, pp. 230-8, (2015) (	