

Mouse SFTPD/SP-D/SFTP4 ELISA Kit | SFTPD/SP-D/SFTP4 elisa kit

Mouse SFTPD/SP-D/SFTP4 ELISA Kit

CATALOG #
AAA258480

REACTIVITY
Mouse

PRODUCT SYNONYMS

SFTPD/SP-D/SFTP4; Mouse SFTPD/SP-D/SFTP4 ELISA Kit; Surfactant protein D/SFTPD ELISA Kit; Mouse; surfactant protein D; AI573415 ELISA Kit; Sftp4 ELISA Kit; SP-D ELISA Kit; SFTPD/SP-D/SFTP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The kit has been verified by high purity Mouse SFTPD/SP-D/SFTP4 recombinant protein.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Recombinant protein
Detection Range	93.75-6000pg/mL
Sensitivity	48.95pg/mL
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

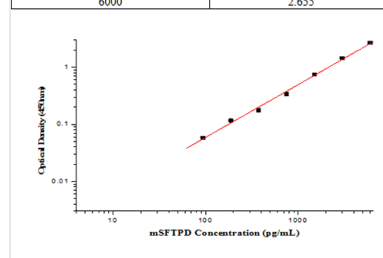
IMAGES

Recombinant human			
DMBT1			
Recombinant mouse			
IL1A	IL1B	IL2	IL12B
TNFa(80-235)	IL6	IFNG	CCL3
VEGF164	IL18R1	IL17a	IL18
IL12A+IL12B	XCL1		

Application Data

This assay recognizes 1 recombinant Mouse SFTPD. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
93.75	0.058
187.5	0.116
375	0.176
750	0.338
1500	0.733
3000	1.443
6000	2.655



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for SFTPD/SP-D/SFTP4 elisa kit	This Surfactant protein D/SFTPD ELISA Kit, Mouse is an enzyme-linked immunosorbent assay for the quantitative measurement of Mouse Surfactant protein D/SFTPD protein in Recombinant protein. It contains recombinant Mouse Surfactant protein D/SFTPD, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Surfactant pulmonary-associated protein D, also known as SFTPD and SP-D, is a member of the collectin family of C-type lectins that is synthesized in many tissues including respiratory epithelial cells in the lung, and contains one C-type lectin domain and one collagen-like domain. The polymorphic variation in the N-terminal domain of the SP-D molecule influences oligomerization, function, and the concentration of the molecule in serum. SFTPD is produced primarily by alveolar type II cells and nonciliated bronchiolar cells in the lung and is constitutively secreted into the alveoli where it influences surfactant homeostasis, effector cell functions, and host defense. It is upregulated in a variety of inflammatory and infectious conditions including Pneumocystis pneumonia and asthma. SFTPD is humoral molecules of the innate immune system, and is considered a functional candidate in chronic periodontitis. Besides, it is involved in the development of acute and chronic inflammation of the lung. Several human lung diseases are characterized by decreased levels of bronchoalveolar SFTPD. Thus, recombinant SFTPD has been proposed as a therapeutical option for cystic fibrosis, neonatal lung disease and smoking-induced emphysema. Furthermore, SFTPD serum levels can be used as disease activity markers for interstitial lung diseases.
References	Leth-Larsen R, et al. (2005) A common polymorphism in the SFTPD gene influences assembly, function, and concentration of surfactant protein D. J Immunol. 174(3): 1532-8. Moran AP, et al. (2005) Role of surfactant protein D (SP-D) in innate immunity in the gastric mucosa: evidence of interaction with Helicobacter pylori lipopolysaccharide. J Endotoxin Res. 11(6): 357-62. Hartl D, et al. (2006) Surfactant protein D in human lung diseases. Eur J Clin Invest. 36(6): 423-35. Krueger M, et al. (2006) Amino acid variants in Surfactant protein D are not associated with bronchial asthma. Pediatr Allergy Immunol. 17(1): 77-81. Glas J, et al. (2008) Increased plasma concentration of surfactant protein D in chronic periodontitis independent of SFTPD genotype: potential role as a biomarker. Tissue Antigens. 72(1): 21-8.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/sftpd-sp-d-sftp4/258480>