

Human Pulmonary Surfactant Associated Protein A ELISA Kit | SPA elisa kit

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CATALOG #
AAA17339

REACTIVITY
Human

PRODUCT SYNONYMS

Pulmonary Surfactant Associated Protein A; Human Pulmonary Surfactant Associated Protein A ELISA Kit; SPA (Pulmonary Surfactant Associated Protein A)/SFTPA1/COLEC4/PSAP/SFTP1/SFTPA/SFTPA1B/PSP-A/PSPA/SP-A/SP-A1/Collectin-4/35 kDa pulmonary surfactant-associated protein/Alveolar proteinosis protein; SPA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SP1. No significant cross-reactivity or interference between SP1 and analogues was observed.
Sequence Length	249
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SP1 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SP1 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a SPA ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	15.625	31.25	62.5	125	250	500	1000
Y	OD450	0.098	0.335	0.491	0.76	1.069	1.443	1.759	2.122

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SPA elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-SP1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-SP1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 SP1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of SP1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47523604
NCBI GeneID	397503
NCBI Accession #	NP_999430.1
NCBI GenBank Nucleotide #	NM_214265.1
Molecular Weight	26,702 Da
NCBI Official Full Name	pulmonary surfactant-associated protein A
NCBI Official Symbol	SFTPA1
NCBI Official Synonym Symbols	PSP-A; SFTPA
NCBI Protein Information	pulmonary surfactant-associated protein A
UniProt Protein Name	Pulmonary surfactant-associated protein A
UniProt Gene Name	SFTPA1
UniProt Synonym Gene Names	SFTP1; SFTPA; PSAP; PSP-A; SP-A
UniProt Entry Name	SFTPA_PIG

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.

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Online datasheet: <https://stage.aaabiotech.com/spa-human-elisa-kits/pulmonary-surfactant-associated-protein-a/17339>