

Human Pulmonary Surfactant-Associated Protein C (SP-C) ELISA Kit | SP-C elisa kit

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CATALOG #
AAA330883

REACTIVITY
Human

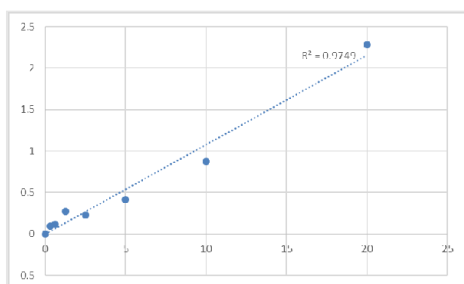
PRODUCT SYNONYMS

Pulmonary Surfactant-Associated Protein C (SP-C); Human Pulmonary Surfactant-Associated Protein C (SP-C) ELISA Kit; SFTPC; PSP-C; SFTP2; SMDP2; SP-C; pulmonary surfactant apoprotein-2 SP-C; surfactant; pulmonary-associated protein C; SP-C elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Pulmonary surfactant-associated protein C (SP-C) ELISA Kit has high sensitivity and excellent specificity for detection of Human SFTPC. No significant cross-reactivity or interference between Human SFTPC and analogues was observed.
Sequence Length	197
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Pulmonary surfactant-associated protein C (SP-C) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SP-C elisa kit	Description: This Human Pulmonary surfactant-associated protein C (SP-C) ELISA Kit employs a two-site sandwich ELISA to quantitate SFTPC in samples. An antibody specific for SFTPC has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SFTPC present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SFTPC is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SFTPC bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: SP-C is a fragment of a much larger precursor protein of 21 kD. The precursor contains an exceedingly hydrophobic region of 34 amino acids that comprises most of the mature SP C, and a unique poly-valine domain.Pulmonary surfactant-associated protein C is a membrane protein which manufactures surfactant.Humans and animals born lacking SP-C tend to develop progressive interstitial pneumonitis.The SFTPC gene encodes pulmonary-associated surfactant protein C (SPC), an extremely hydrophobic surfactant protein essential for lung function and homeostasis after birth. It is produced exclusively by type II alveolar epithelial cells in the lung. Pulmonary surfactant is a lipid-rich material that prevents lung collapse by lowering surface tension at the air-liquid interface in the alveoli of lung.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	131425
NCBI GeneID	6440
UniProt Accession #	P11686
NCBI Official Full Name	Pulmonary surfactant-associated protein C
NCBI Official Synonym Full Names	surfactant protein C
NCBI Official Symbol	SFTPC
NCBI Official Synonym Symbols	SP-C; PSP-C; SFTP2; SMDP2; BRICD6
NCBI Protein Information	pulmonary surfactant-associated protein C
UniProt Protein Name	Pulmonary surfactant-associated protein C
UniProt Gene Name	SFTPC
UniProt Synonym Gene Names	SFTP2; SP-C
UniProt Entry Name	PSPC_HUMAN

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/human-elisa-kits/pulmonary-surfactant-associated-protein-c-sp-c/330883>