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

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CATALOG #	REACTIVITY
AAA330884	**Human**

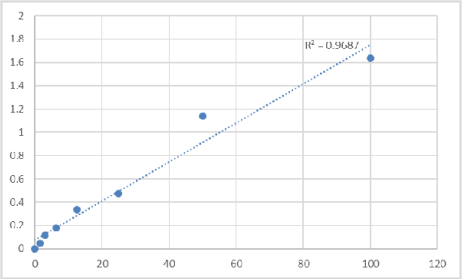
PRODUCT SYNONYMS

Pulmonary Surfactant-Associated Protein B (SP-B); Human Pulmonary Surfactant-Associated Protein B (SP-B) ELISA Kit; SFTPB; PSP-B; SFTB3; SFTP3; SMDP1; SP-B; OTTHUMP00000203253; Pulmonary surfactant-associated protein B; 18kD; surfactant; pulmonary-associated protein B; SP-B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Pulmonary surfactant-associated protein B (SP-B) ELISA Kit has high sensitivity and excellent specificity for detection of Human SFTPB. No significant cross-reactivity or interference between Human SFTPB and analogues was observed.
Sequence Length	393
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 B (SP-B) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SP-B elisa kit	Description: This Human Pulmonary surfactant-associated protein B (SP-B) ELISA Kit employs a two-site sandwich ELISA to quantitate SFTPB in samples. An antibody specific for SFTPB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SFTPB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SFTPB 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 SFTPB bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: SP-B is expressed in pulmonary adenocarcinomas with acinar, papillary, bronchioloalveolar, and solid growth patterns. Squamous cell and large cell carcinomas of the lung and nonpulmonary adenocarcinomas do not express SP-B. Pulmonary surfactant-associated protein B' is a membrane protein which manufactures surfactant.Humans and animals born with a congenital absence of SP-B suffer from intractable respiratory failure. The SFTPB is an amphipathic surfactant protein essential for lung function and homeostasis after birth. 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. SPB enhances the rate of spreading and increases the stability of surfactant monolayers in vitro.

NCBI AND UNIPROT INFORMATION

NCBI GI #	288856299
NCBI GeneID	6439
NCBI Accession #	NP_000533.3
NCBI GenBank Nucleotide #	NP_000533.3
UniProt Accession #	P07988
NCBI Official Full Name	pulmonary surfactant-associated protein B
NCBI Official Synonym Full Names	surfactant protein B
NCBI Official Symbol	SFTPB
NCBI Official Synonym Symbols	SP-B; PSP-B; SFTB3; SFTP3; SMDP1
NCBI Protein Information	pulmonary surfactant-associated protein B
UniProt Protein Name	Pulmonary surfactant-associated protein B
UniProt Gene Name	**SFTPB**
UniProt Synonym Gene Names	SFTP3; SP-B
UniProt Entry Name	PSPB_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-b-sp-b/330884