

Rat Surfactant Associated Protein B (SPB) ELISA Kit | SPB elisa kit

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CATALOG #
AAA184884

REACTIVITY
Rat

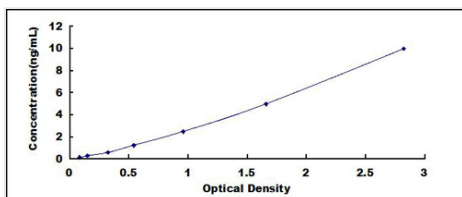
PRODUCT SYNONYMS

Surfactant Associated Protein B (SPB); Rat Surfactant Associated Protein B (SPB) ELISA Kit; SFTPB; PSPB; SFTB3; SFTP3; SP-B; Pulmonary Surfactant Protein B; 18 kDa pulmonary-surfactant protein; 6 kDa protein; SPB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Surfactant Associated Protein B (SPB). No significant cross-reactivity or interference between Surfactant Associated Protein B (SPB) and analogues was observed.
Sequence Length	376
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates, Lung Lavage Fluid and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.054ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Surfactant Associated Protein B (SPB) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Surfactant Associated Protein B (SPB) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SPB elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Surfactant Associated Protein B (SPB). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Surfactant Associated Protein B (SPB). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Surfactant Associated Protein B (SPB), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Surfactant Associated Protein B (SPB) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	149036401
NCBI GeneID	192155
UniProt Accession #	P22355
Molecular Weight	41,590 Da
NCBI Official Full Name	surfactant associated protein B
NCBI Official Synonym Full Names	surfactant protein B
NCBI Official Symbol	Sftpb
NCBI Official Synonym Symbols	Sp-b
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

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/rat-elisa-kits/surfactant-associated-protein-b-spb/184884>