

Rat Surfactant Associated Protein D (SPD) ELISA Kit | SPD elisa kit

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CATALOG #
AAA184290

REACTIVITY
Rat

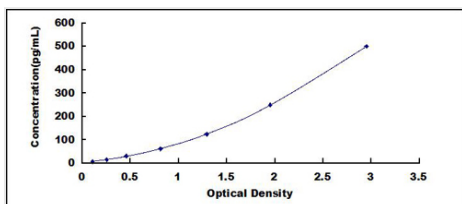
PRODUCT SYNONYMS

Surfactant Associated Protein D (SPD); Rat Surfactant Associated Protein D (SPD) ELISA Kit; SFTPD; COLEC7; PSP-D; SFTP4; SP-D; Pulmonary Surfactant Protein D; Collectin-7; Lung surfactant protein D; SPD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Surfactant Associated Protein D (SPD). No significant cross-reactivity or interference between Surfactant Associated Protein D (SPD) and analogues was observed.
Sequence Length	374
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Lung Lavage Fluid and Other Biological Fluids
Detection Range	7.8-500pg/mL
Sensitivity	< 2.6pg/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 D (SPD) 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 D (SPD) 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 SPD 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 D (SPD). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Surfactant Associated Protein D (SPD). 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 D (SPD), 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 D (SPD) 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 #	13277590
NCBI GeneID	20390
UniProt Accession #	P50404
Molecular Weight	37,688 Da
NCBI Official Full Name	Surfactant associated protein D
NCBI Official Synonym Full Names	surfactant associated protein D
NCBI Official Symbol	Sftpd
NCBI Official Synonym Symbols	SP-D; Sfpd; Sftp4; AI573415
NCBI Protein Information	pulmonary surfactant-associated protein D
UniProt Protein Name	Pulmonary surfactant-associated protein D
UniProt Gene Name	Sftpd
UniProt Synonym Gene Names	Sftp4; PSP-D; SP-D

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/rat-elisa-kits/surfactant-associated-protein-d-spd/184290>