

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

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CATALOG #
AAA138536

REACTIVITY
Rat

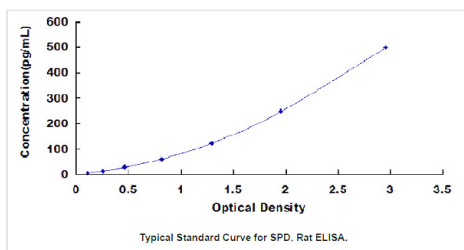
PRODUCT SYNONYMS

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 SPD. No significant cross-reactivity or interference between 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
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SPD were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SPD were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SPD. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 SPD in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for SPD elisa kit	Infection immunity; Pulmonology

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; Sftpd; 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	Sftpd; PSP-D; SP-D
UniProt Entry Name	SFTPD_MOUSE

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/138536>