

Bovine Pulmonary Surfactant-Associated Protein D (SFTPD) ELISA Kit | SFTPD elisa kit

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CATALOG #
AAA247526

REACTIVITY
Bovine

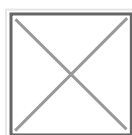
PRODUCT SYNONYMS

Pulmonary Surfactant-Associated Protein D (SFTPD); Bovine Pulmonary Surfactant-Associated Protein D (SFTPD) ELISA Kit; SFTPD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	This assay has high sensitivity and excellent specificity for detection of SFTPD. No significant cross-reactivity or interference between SFTPD and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between SFTPD and all the analogues, therefore, cross reaction may still exist in some cases.
Sequence Length	375
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 ng/mL
Preparation and Storage	Store at 2-8 degree C. 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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SFTPD elisa kit

Intended Uses: This SFTPD ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Bovine SFTPD. This ELISA kit for research use only, not for therapeutic or test applications!

Principle of the Assay: SFTPD ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-SFTPD antibody and an SFTPD-HRP conjugate. The assay sample and buffer are incubated together with SFTPD-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the SFTPD concentration since SFTPD from samples and SFTPD-HRP conjugate compete for the anti-SFTPD antibody binding site. Since the number of sites is limited, as more sites are occupied by SFTPD from the sample, fewer sites are left to bind SFTPD-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The SFTPD concentration in each sample is interpolated from this standard curve.

Product Categories/Family for SFTPD
elisa kit

Immunology; Microbiology; Signal Transduction; Cancer; Cardiovascular; Metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	61699226
NCBI GeneID	6441
NCBI Accession #	NP_003010.4
NCBI GenBank Nucleotide #	NM_003019.5
UniProt Accession #	P35247; Q5T0M3; Q6FH08; Q86YK9; Q8TCD8; Q9UCJ2; Q9UCJ3
Molecular Weight	37,728 Da
NCBI Official Full Name	pulmonary surfactant-associated protein D
NCBI Official Synonym Full Names	surfactant protein D
NCBI Official Symbol	SFTPD
NCBI Official Synonym Symbols	SP-D; PSP-D; SFTP4; COLEC7
NCBI Protein Information	pulmonary surfactant-associated protein D
UniProt Protein Name	Pulmonary surfactant-associated protein D
UniProt Gene Name	SFTPD
UniProt Synonym Gene Names	COLEC7; PSPD; 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/bovine-ovine-elisa-kits/pulmonary-surfactant-associated-protein-d-sftpd/247526>