

Anti-SP-D Antibody

Catalog # ABO12303

Product Information

Application	WB, IHC-P, IHC-F, ICC, E
Primary Accession	P35247
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Pulmonary surfactant-associated protein D(SFTPD) detection. Tested with WB, IHC-P, IHC-F, ICC, ELISA in Human;Mouse; Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6441
Other Names	Pulmonary surfactant-associated protein D, PSP-D, SP-D, Collectin-7, Lung surfactant protein D, SFTPD, COLEC7, PSPD, SFTP4
Calculated MW	37728
Application Details	ELISA , 0.1-0.5 μ g/ml Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, By Heat Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml Immunocytochemistry, 0.5-1 μ g/ml Western blot, 0.1-0.5 μ g/ml
Subcellular Localization	Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film.
Tissue Specificity	Expressed in lung, brain, pancreas and adipose tissue (mainly mature adipocytes). .
Source	Eukaryota
Protein Name	Pulmonary surfactant-associated protein D
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Surfactant protein D (292-321aa RSAAENAALQQLVVAKNEAAFLSMTD SKTE), different from the related mouse and rat sequences by eight amino acids.

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the SFTPD family.

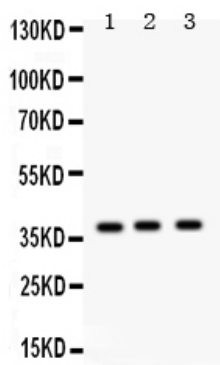
Protein Information

Name	SFTPD
Synonyms	COLEC7, PSPD, SFTP4
Function	Contributes to the lung's defense against inhaled microorganisms, organic antigens and toxins. Interacts with compounds such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. May participate in the extracellular reorganization or turnover of pulmonary surfactant. Binds strongly maltose residues and to a lesser extent other alpha- glucosyl moieties.
Cellular Location	Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film
Tissue Location	Expressed in lung, brain, pancreas and adipose tissue (mainly mature adipocytes).

Background

Surfactant, pulmonary-associated protein D, also known as SFTPD or SP-D, is a protein which in humans is encoded by the SFTPD gene. It is mapped to 10q22.2-q23.1. The protein encoded by this gene is part of the innate immune response, protecting the lungs against inhaled microorganisms and chemicals. The encoded protein may also be involved in surfactant metabolism.

Images



Anti- Surfactant protein D Picoband antibody, ABO12303,
Western blottingAll lanes: Anti Surfactant protein D
(ABO12303) at 0.5ug/mlLane 1: Rat Lung Tissue Lysate at
50ugLane 2: Rat Brain Tissue Lysate at 50ugLane 3: PANC
Whole Cell Lysate at 40ugPredicted bind size:
38KDObserved bind size: 38KD

Anti- Surfactant protein D Picoband antibody, ABO12303,
IHC(P)IHC(P): Human Lung Cancer Tissue

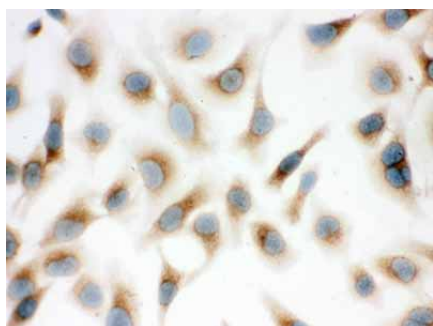
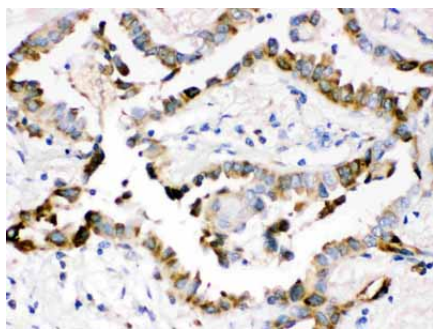


Figure 3. IHC analysis of Surfactant protein D using anti-Surfactant protein D antibody (ABO12303). Surfactant protein D was detected in immunocytochemical section of A549 cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti-Surfactant protein D Antibody (ABO12303) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Figure 4. IHC analysis of Surfactant protein D using anti-Surfactant protein D antibody (ABO12303). Surfactant protein D was detected in immunocytochemical section of HeLa cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti-Surfactant protein D Antibody (ABO12303) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Figure 5. IHC analysis of Surfactant protein D using anti-Surfactant protein D antibody (ABO12303). Surfactant protein D was detected in frozen section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 μ g/ml rabbit anti-Surfactant protein D Antibody (ABO12303) overnight at 4 $^{\circ}$ C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 $^{\circ}$ C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen. 5