SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-SFTPD antibody

Catalog Number: SL1583R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SFTPD
Immunogen:	KLH conjugated synthetic peptide derived from human SP-D: 301-375/375
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=2ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, (predicted: Rat, Dog)
Predicted MW.:	41kDa
Subcellular Location:	Secretory protein
Background:	Surfactant protein D contributes to the lung's defense against inhaled microorganisms. It's a calcium ion dependent carbohydrate binding protein and is structurally similar to other C type mammalian lectins, such as conglutinin and SPA. It has a molecular size of approximately 37-43kDa in its reduced state, 620kDa in non dissociating conditions. Surfactant protein D enhances the production of oxygen radicals by rat alveolar macrophages and regulates some actions of SPA, which is the most abundant surfactant protein. Surfactant protein D is synthesized and secreted by alveolar epithelial type II cells. **Function:** Contributes to the lung's defense against inhaled microorganisms. May participate in the extracellular reorganization or turnover of pulmonary surfactant. Binds strongly maltose residues and to a lesser extent other alpha-

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	glucosyl moieties. **Subunit:** Oligomeric complex of 4 set of homotrimers. **Subcellular Location:** Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film. **Post-translational modifications:** The N-terminus is blocked. Hydroxylation on proline residues within the sequence motif, GXPG, is most likely to be 4-hydroxy as this fits the requirement for 4-hydroxylation in vertebrates. **Similarity:** Belongs to the SFTPD family. Contains 1 C-type lectin domain. Contains 1 collagen-like domain. **Database links:** **Entrez Gene:** 6441 Human **Entrez Gene:** 20390 Mouse **Entrez Gene:** 25350 Rat Omim: 178635 Human **SwissProt:** P35247 Human **SwissProt:** P50404 Mouse **SwissProt:** P35248 Rat **Unigene:** 253495 Human **Unigene:** 1321 Mouse **Unigene:** 11348 Rat

[VALIDATION IMAGES]

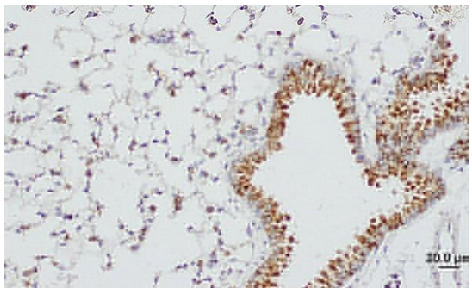


Figure 1. Formalin-fixed and paraffin embedded mouse lung tissue labeled Anti-SP-D Polyclonal Antibody, Unconjugated (SL1583R) at 1:2000, followed by conjugation to the secondary antibody and DAB staining

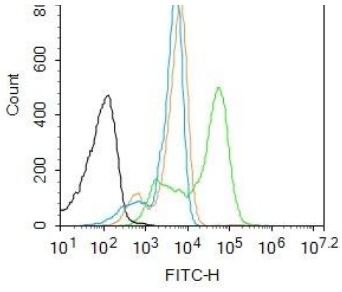


Figure 2. Blank control:THP-1. Primary Antibody (green line): Rabbit Anti-SFTPD antibody (SL1583R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed

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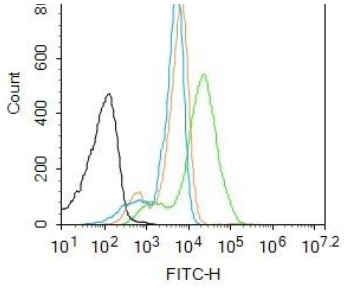


Figure 3. Blank control:THP-1. Primary Antibody (green line): Rabbit Anti-SFTPD antibody (SL1583R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed

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