

bs-1583R**[Primary Antibody]****Bioss**
ANTIBODIES

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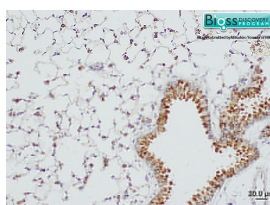
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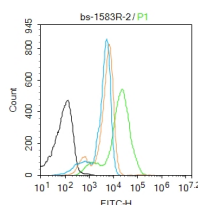
400-901-9800

SFTPD Rabbit pAb**DATASHEET**

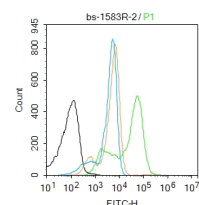
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (2ug/Test)
Clonality: Polyclonal		Reactivity: Human, Mouse (predicted: Rat)
GeneID: 6441	SWISS: P35247	
Target: SFTPD		
Immunogen: KLH conjugated synthetic peptide derived from human SP-D: 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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Predicted MW.: 41 kDa
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.		Subcellular Location: Secreted

VALIDATION IMAGES

Formalin-fixed and paraffin embedded mouse lung tissue labeled Anti-SP-D Polyclonal Antibody, Unconjugated (bs-1583R) at 1:2000, followed by conjugation to the secondary antibody and DAB staining



Blank control:THP-1. Primary Antibody (green line): Rabbit Anti-SFTPD antibody (bs-1583R) Dilution: 2μg /10⁶ 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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SELECTED CITATIONS

- **[IF=4.92]** Ferretti, Andrew, et al. "Autoantibody-Mediated Pulmonary Alveolar Proteinosis in Rasgrp1-Deficient Mice." The Journal of Immunology (2016): 1502248. IHC ;="Mouse". 27279372

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=4.06]** Malvin NP et al. Autophagy proteins are required for club cell structure and function in airways. Am J Physiol Lung Cell Mol Physiol. 2019 May 22. IHC ;Mouse&Human. 31116580
- **[IF=2.94]** Sung, Hsin-Ching, et al. "The protective effect of eupafolin against TNF- α -induced lung inflammation via the reduction of intercellular cell adhesion molecule-1expression." Journal of Ethnopharmacology (2015). IHC ;="Mouse". 25975517
- **[IF=3.419]** Shota Mitsuboshi. et al. A novel alveolar epithelial cell sheet fabricated under feeder-free conditions for potential use in pulmonary regenerative therapy. Regen Ther. 2022 Mar;19:113 IHC ;Rat. 10.1016/j.reth.2022.01.005
- **[IF=1.19]** Furukawa et al. Databases for technical aspects of immunohistochemistry. (2017) J.Toxicol.Patho. 30:79-107 IHC ;Mouse. 28190929