bs-10067R **[Primary Antibody]**

SFTPC Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6440 **SWISS:** P11686

Target: SFTPC

Immunogen: KLH conjugated synthetic peptide derived from human SFTPC: 24-58/197.

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.

Background: This gene encodes the pulmonary-associated surfactant protein C (SPC), an extremely hydrophobic surfactant protein essential for lung function and homeostasis after birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90% lipids and 10% proteins which include plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. The surfactant is secreted by the alveolar cells of the lung and maintains the stability of pulmonary tissue by reducing the surface tension of fluids that coat the lung. Multiple mutations in this gene have been identified, which cause pulmonary surfactant metabolism dysfunction type 2, also called pulmonary alveolar proteinosis due to surfactant protein C deficiency, and are associated with interstitial lung disease in older infants, children, and adults. Alternatively spliced transcript variants encoding different protein isoforms have been identified.

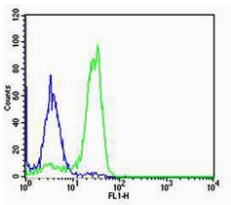
Applications: **Flow-Cyt** (1µg/Test)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Sheep, Cow)

Predicted MW.: 4/21 kDa

Subcellular Location: Secreted ,Extracellular matrix

VALIDATION IMAGES



Cell: NCI-H460 Concentration:1:100 Host/Isotype:Rabbit/IgG Flow cytometric analysis of Rabbit IgG isotype control (Cat#: bs-10067R) on NCI-H460(green) compared with control in the absence of primary antibody (blue) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .

SELECTED CITATIONS

- **[IF=5.6]** Lei Chen. et al. Luteolin Enhances Transepithelial Sodium Transport in the Lung Alveolar Model: Integrating Network Pharmacology and Mechanism Study. INT J MOL SCI. 2023 Jan;24(12):10122 IF,FCM ;Mouse. 37373270
- **[IF=5.656]** Kerr NA et al. Human Lung Cell Pyroptosis Following Traumatic Brain Injury. Cells. 2019 Jan 18;8(1). pii: E69. FCM ;Human. 30669285
- **[IF=3.52]** Yan, Wang, et al. "SB203580 inhibits epithelial–mesenchymal transition and pulmonary fibrosis in a rat silicosis model." Toxicology Letters (2016). FCM ;="Rat". 27480278

- **[IF=3.84]** Dinh, Phuong-Uyen C., et al. "Derivation of therapeutic lung spheroid cells from minimally invasive transbronchial pulmonary biopsies." Respiratory Research 18.1 (2017): 132. FCM ;="Human". 28666430
- **[IF=4.01]** Yang et al. CXCR4 receptor overexpression in mesenchymal stem cells facilitates treatment of acute lung injury in rats. (2015) J.Biol.Chem. 290:1994-2006 Other ;Rat. 25492872