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# SFTPA1B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14524c

## Product Information

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| **Application** | WB, IHC-P, E |
| **Primary Accession** | Q8IWL2 |
| **Other Accession** | Q8IWL1, NP_001087239.2, NP_005402.3 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB34383 |
| **Calculated MW** | 26242 |
| **Antigen Region** | 146-174 |

## Additional Information

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| **Gene ID** | 653509 |
| **Other Names** | Pulmonary surfactant-associated protein A1, PSP-A, PSPA, SP-A, SP-A1, 35 kDa pulmonary surfactant-associated protein, Alveolar proteinosis protein, Collectin-4, SFTPA1, COLEC4, PSAP, SFTP1, SFTPA, SFTPA1B |
| **Target/Specificity** | This SFTPA1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 146-174 amino acids from the Central region of human SFTPA1B. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | SFTPA1B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | SFTPA1 |
| **Synonyms** | COLEC4, PSAP, SFTP1, SFTPA, SFTPA1B |

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| **Function** | In presence of calcium ions, it binds to surfactant phospholipids and contributes to lower the surface tension at the air- liquid interface in the alveoli of the mammalian lung and is essential for normal respiration. Enhances the expression of MYO18A/SP-R210 on alveolar macrophages (By similarity). |
| **Cellular Location** | Secreted. Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film |

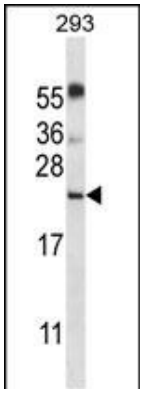
## Background

This gene encodes a lung surfactant protein that is a member of a subfamily of C-type lectins called collectins. The encoded protein binds specific carbohydrate moieties found on lipids and on the surface of microorganisms. This protein plays an essential role in surfactant homeostasis and in the defense against respiratory pathogens. Mutations in this gene are associated with idiopathic pulmonary fibrosis. Alternate splicing results in multiple transcript variants.

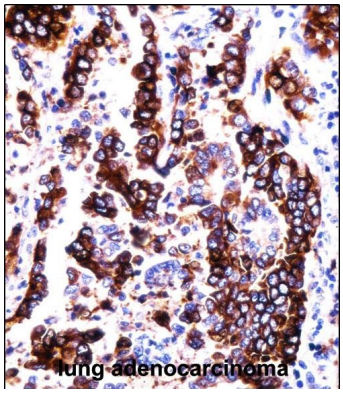
## References


Silveyra, P., et al. Am. J. Physiol. Lung Cell Mol. Physiol. 299 (4), L523-L534 (2010) :
Liu, D.Y., et al. Zhongguo Dang Dai Er Ke Za Zhi 12(6):444-446(2010)
Liu, J., et al. Tohoku J. Exp. Med. 221(1):35-42(2010)
Berg, T., et al. Biochim. Biophys. Acta 1543(1):159-173(2000)
Childs, R.A., et al. J. Biol. Chem. 267(14):9972-9979(1992)


## Images




SFTPA1B Antibody (Center) (Cat. #AP14524c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the SFTPA1B antibody detected the SFTPA1B protein (arrow).




SFTPA1B Antibody (Center) (AP14524c)immunohistochemistry analysis in formalin fixed and paraffin embedded human lung adenocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SFTPA1B Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

## Citations

- Surfactant proteins A and D are related to severity of the disease, pathogenic bacteria and comorbidity in patients with chronic rhinosinusitis with and without nasal polyps.