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SFTPA1B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14524c

Product Information

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

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

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

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

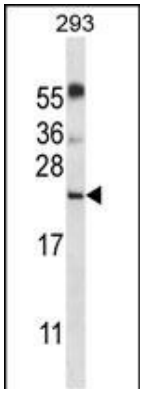
Background

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.

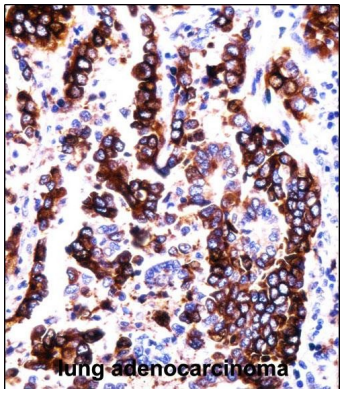
References

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Liu, J., et al. Tohoku J. Exp. Med. 221(1):35-42(2010)
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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.