

SFTPC Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13684B

Product Information

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|--------------------------|--------------------------------|
| Application | WB, IHC-P, IF, E |
| Primary Accession | P11686 |
| Other Accession | NP_001165828.1 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB33577 |
| Calculated MW | 21013 |
| Antigen Region | 144-173 |

Additional Information

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|---------------------------|---|
| Gene ID | 6440 |
| Other Names | Pulmonary surfactant-associated protein C, SP-C, Pulmonary surfactant-associated proteolipid SPL(Val), SP5, SFTPC, SFTP2 |
| Target/Specificity | This SFTPC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 144-173 amino acids from the C-terminal region of human SFTPC. |
| Dilution | WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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 | SFTPC Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | SFTPC (HGNC:10802) |
| Synonyms | SFTP2 |

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| Function | Pulmonary surfactant associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces. |
| Cellular Location | Secreted, extracellular space, surface film. |

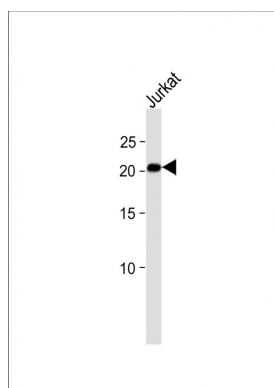
Background

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.

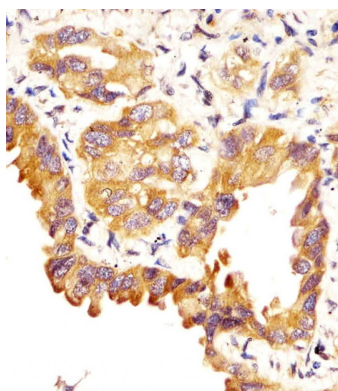
References

Wambach, J.A., et al. *Pediatr. Res.* 68(3):216-220(2010)
 Schuurhof, A., et al. *Pediatr. Pulmonol.* 45(6):608-613(2010)
 Thouvenin, G., et al. *Arch. Dis. Child.* 95(6):449-454(2010)
 Crossno, P.F., et al. *Chest* 137(4):969-973(2010)
 Davila, S., et al. *Genes Immun.* 11(3):232-238(2010)

Images

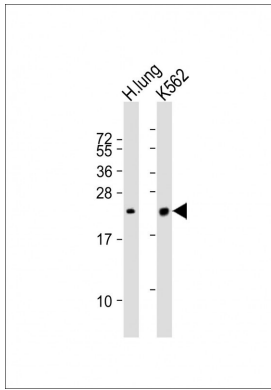


All lanes: Anti-SFTPC Antibody (C-term) at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 21 KDa Blocking/Dilution buffer: 5% NFDm/TBST.

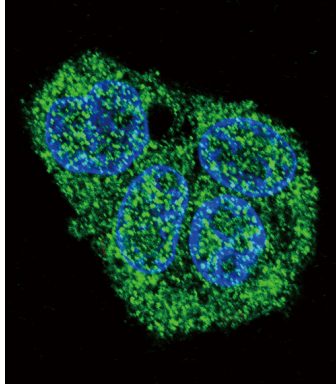


AP13684b staining SFTPC in human lung adenocarcinoma sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

All lanes : Anti-SFTPC Antibody (C-term) at 1:2000 dilution
 Lane 1: human lung lysates Lane 2: K562 whole cell



lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 21 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Confocal immunofluorescent analysis of SFTPC Antibody (C-term)(Cat#AP13684b) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

Citations

- [Lung emphysema and impaired macrophage elastase clearance in mucolipin 3 deficient mice](#)

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