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SFTPC Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13684b

Specification

SFTPC Antibody (C-term) - Product Information

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

SFTPC Antibody (C-term) - Additional Information

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
IF~~1:10~50
WB~~1:2000
IHC-P~~1:25

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
SFTPC Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SFTPC Antibody (C-term) - Protein Information

Name SFTPC (HGNC:10802)

Synonyms SFTP2

Function Pulmonary surfactant associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces.

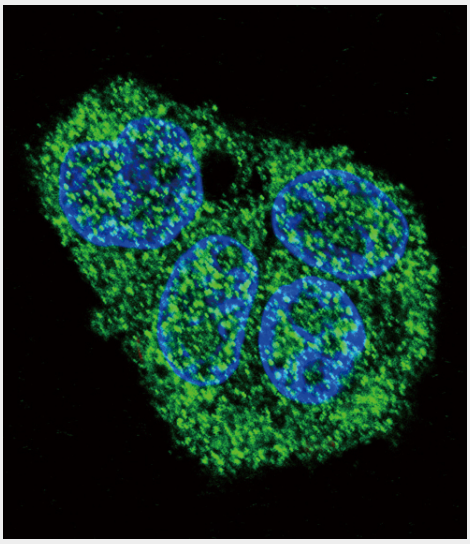
Cellular Location
Secreted, extracellular space, surface film.

SFTPC Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SFTPC Antibody (C-term) - Images



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

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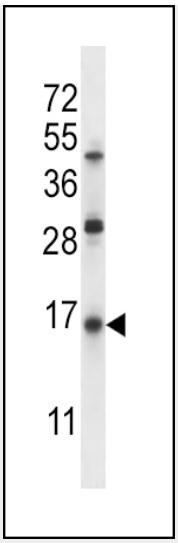
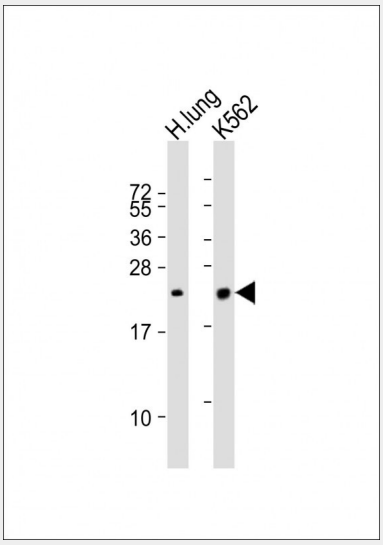


SFTPC Antibody (C-term) (Cat. #AP13684b) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the SFTPC antibody detected the SFTPC protein (arrow).



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.

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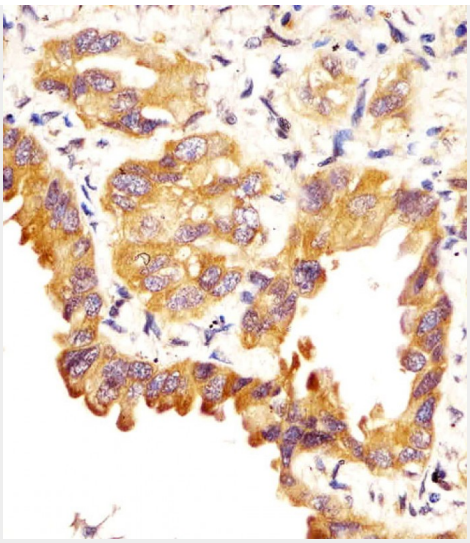

AP13684b staining SFTPC in human lung adenocarcinoma sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (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.

SFTPC Antibody (C-term) - 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.

SFTPC Antibody (C-term) - 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)

SFTPC Antibody (C-term) - Citations

- Lung emphysema and impaired macrophage elastase clearance in mucolipin 3 deficient mice