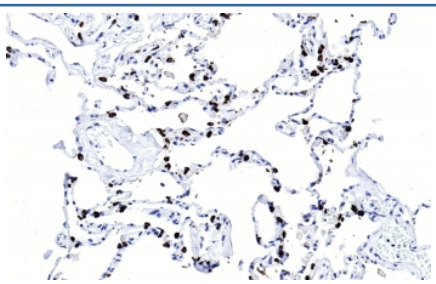
SFTPC Antibody / Surfactant protein C (F55062)

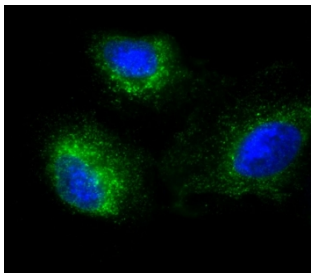
Catalog No.	Formulation	Size
F55062-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F55062-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

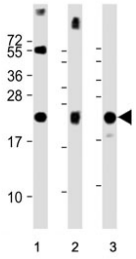
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P11686
Applications	Western Blot : 1:1000-1:2000 Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:200 Flow Cytometry : 1:25 per million cells in 0.1ml
Limitations	This SFTPC antibody is available for research use only.



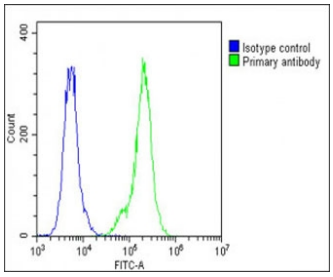
IHC testing of FFPE human lung tissue with SFTPC antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human A549 cells with SFTPC antibody (green) and DAPI nuclear stain (blue).



Western blot testing of 1) human lung, 2) mouse lung and 3) rat lung tissue lysate with SFTPC antibody. Predicted molecular weight ~21 kDa.



Flow cytometry testing of fixed and permeabilized human A549 cells with SFTPC antibody; Blue=isotype control, Green= SFTPC antibody.

Description

Surfactant protein C is a hydrophobic protein that is primarily found in type II alveolar cells in the lungs. Its main function is to stabilize the lipid layer of pulmonary surfactant, preventing alveoli collapse and maintaining proper lung function. Without sufficient levels of SFTPC protein, individuals may experience respiratory distress and lung diseases such as pulmonary fibrosis and acute respiratory distress syndrome. Research has shown that mutations in the SFTPC gene can lead to various lung disorders, highlighting the role of this protein in maintaining respiratory function.

Application Notes

Titration of the SFTPC antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 1-30 from the human protein was used as the immunogen for the SFTPC antibody.

Storage

Aliquot the SFTPC antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.