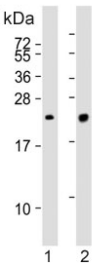
Pulmonary surfactant-associated protein C Antibody / SFTPC (F54672)

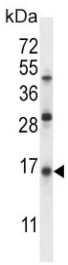
Catalog No.	Formulation	Size
F54672-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54672-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

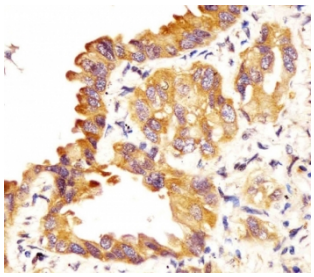
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P11686
Applications	Western Blot : 1:500-1:2000 Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:25
Limitations	This Pulmonary surfactant-associated protein C antibody is available for research use only.



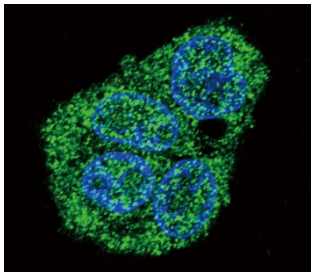
Western blot testing of human 1) lung and 2) K562 cell lysate with Pulmonary surfactant-associated protein C antibody. Predicted molecular weight ~21 kDa.



Western blot testing of human Jurkat cell lysate with Pulmonary surfactant-associated protein C antibody. Predicted molecular weight ~21 kDa.



IHC testing of FFPE human lung adenocarcinoma tissue with Pulmonary surfactant-associated protein C antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of human HepG2 cells with Pulmonary surfactant-associated protein C antibody (green) and DAPI nuclear stain (blue).

Description

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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Pulmonary surfactant-associated protein C antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 144-173 from the human protein was used as the immunogen for the Pulmonary surfactant-associated protein C antibody.

Storage

Aliquot the Pulmonary surfactant-associated protein C antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.