

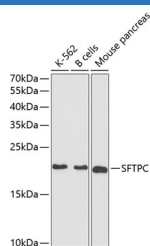
## SFTPC Polyclonal Antibody

**catalog number: E-AB-60468**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

Description	
<b>Reactivity</b>	Human;Mouse;Rat
<b>Immunogen</b>	Recombinant fusion protein of human SFTPC (NP_001165881.1).
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.
Applications	Recommended Dilution
<b>WB</b>	1:500-1:2000
<b>IHC</b>	1:50-1:200
<b>IF</b>	1:50-1:200

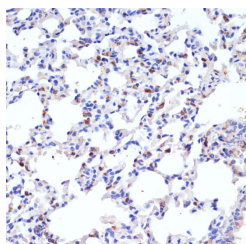
## Data



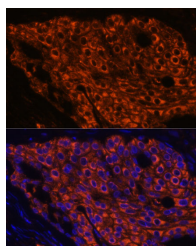
Western blot analysis of extracts of various cell lines using SFTPC Polyclonal Antibody at dilution of 1:1000.

**Observed-MV:21 kDa**

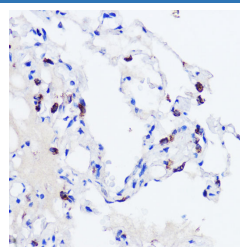
**Calculated-MV:20 kDa/21 kDa**



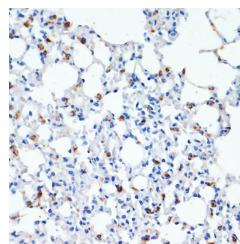
Immunohistochemistry of paraffin-embedded Rat lung using SFTPC Polyclonal Antibody at dilution of 1:200 (40x lens).



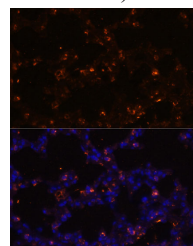
Immunofluorescence analysis of Human lung cancer using SFTPC Polyclonal Antibody at dilution of 1:100 (40x lens).  
Blue: DAPI for nuclear staining.



Immunohistochemistry of paraffin-embedded Human lung using SFTPC Polyclonal Antibody at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded Mouse lung using SFTPC Polyclonal Antibody at dilution of 1:200 (40x lens).



Immunofluorescence analysis of Mouse lung using SFTPC Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

## For Research Use Only

## Preparation & Storage

**Storage**

Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping**

The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

## 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.

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