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SFTPC Rabbit mAb

Catalog No.: A23181

Recombinant | 3 Publications

Basic Information

Observed MW
21-25kDa

Calculated MW
21kDa

Category
Monoclonal Antibodies

Applications
WB, IF-P, ELISA

Cross Reactivity
Mouse, Rat

Clone No.
ARC59447

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.

Recommended Dilutions

WB	1:1000 - 1:2000
IF-P	1:200 - 1:400

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
6440

Swiss-Prot
P11686

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
SP5; SP-C; PSP-C; SFTP2; SMDP2; BRICD6; SFTPC

Contact

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Product Information

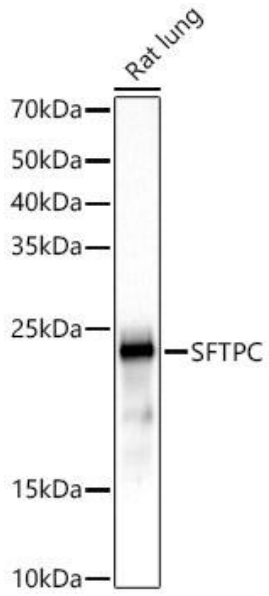
Source
Rabbit

Isotype
IgG

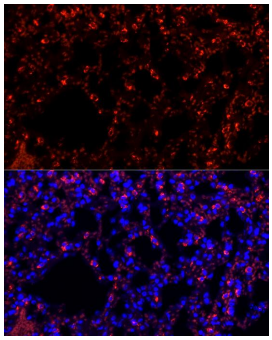
Purity
Affinity purification

Storage
Store at -20℃
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of lysates from Rat lung using SFTPC Rabbit mAb (A23181) at 1:2000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



Immunofluorescence analysis of paraffin-embedded Mouse lung tissue using SFTPC Rabbit mAb (A23181) at dilution of 1:100 (40x lens).Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining.

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