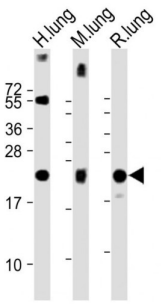
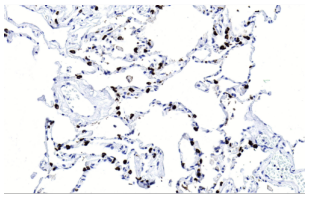
Pulmonary Surfactant-Associated Protein C (SFTPC) Antibody

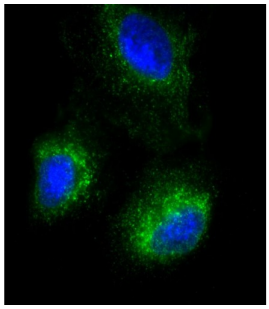
Catalogue No.:abx026736



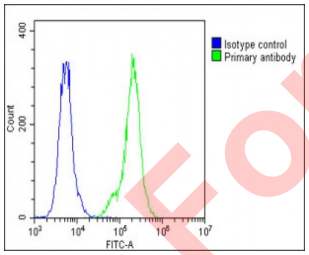
WB analysis of (1) Human lung lysate, (2) Mouse lung lysate, and (3) Rat lung lysate, using SFTPC Antibody (1/2000 dilution). Predicted band size: 21 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



IHC-P analysis of human lung tissue, using SFTPC Antibody (1/200 dilution).



IF analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized A549 cells, using SFTPC Antibody (1/25 dilution) and DL488-conjugated Goat anti-Rabbit IgG secondary antibody (1/200 dilution, green), showing cystoplasmic staining. Cytoplasmic actin was detected with DL554-Phalloidin (1/500 dilution, red). DAPI was used for nuclear staining (blue).



Flow cytometry analysis of A549 cells fixed with 2% paraformaldehyde (10 min) and permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% BSA to block non-specific protein-protein interactions followed by addition of the antibody (1/25 dilution for 60 min at 37 °C, green line). The secondary antibody used was DL488-conjugated Goat anti-Rabbit IgG (1/200 dilution for 40 min at 37 °C). The isotype control antibody (rabbit IgG1, 1 µg/10^6 cells, blue line) was used under the same conditions. Acquisition of > 10,000 events was performed.

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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Target:	Pulmonary Surfactant-Associated Protein C (SFTPC)
Clonality:	Polyclonal
Reactivity:	Human, Mouse, Rat
Tested Applications:	ELISA, WB, IF/ICC, FCM
Host:	Rabbit
Recommended dilutions:	WB: 1/2000, IHC-P: 1/200, IF/ICC: 1/25, FCM: 1/25. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	KLH-conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SFTPC.
Isotype:	IgG
Form:	Liquid
Purification:	Purified through a protein A column, followed by peptide affinity purification.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P11686 (UniProt, ExPASy)
Gene Symbol:	SFTPC
GeneID:	6440
OMIM:	178620
HGNC:	10802
KEGG:	hsa:6440
Ensembl:	ENSG00000168484
String:	9606.ENSP00000316152
Molecular Weight:	Calculated MW: 21.1 kDa
Buffer:	PBS containing 0.09% sodium azide.

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Specificity:	Predicted to react with Cow SFTPC.
Concentration:	0.5 mg/ml
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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