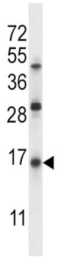
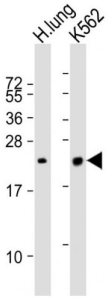
Pulmonary Surfactant-Associated Protein C (SFTPC) Antibody

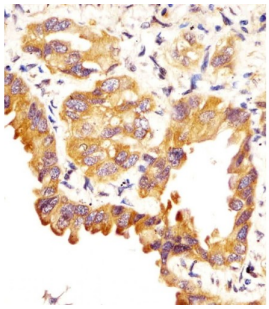
Catalogue No.:abx027534



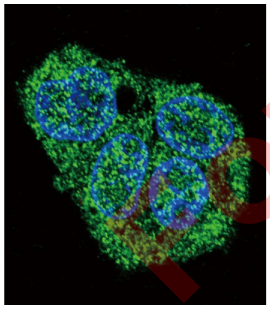
WB analysis of Jurkat cell line lysates.



WB analysis of (1) human lung lysate, and (2) K562 whole cell lysate, using SFTPC antibody (1/2000 dilution) and HRP-conjugated goat anti-rabbit IgG (H+L) secondary antibody (1/10000 dilution). Predicted band size: 21 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



IHC-P analysis of human lung adenocarcinoma. The tissue was fixed with formaldehyde and blocked with 3% BSA for 30 min at room temperature; antigen retrieval was carried out by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hour at 37 °C. An undiluted biotin-conjugated goat antibody was used as the secondary antibody.



Confocal immunofluorescent analysis of HepG2 cells, using SFTPC Antibody and AF488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nucleus (blue).

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
Tested Applications:	ELISA, WB, IHC, IF/ICC
Host:	Rabbit
Recommended dilutions:	WB: 1/1000, IHC-P: 1/25, IF/ICC: 1/10 - 1/50. Not tested in IHC-F. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	KLH-conjugated synthetic peptide between 144-173 amino acids from the C-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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Concentration: 0.3 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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