

Rabbit anti-Human SFTPC Polyclonal Antibody | anti-SFTPC antibody

SFTPC Antibody (C-term)

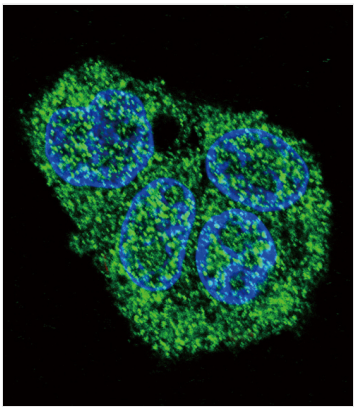
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286640	Rabbit	Human	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

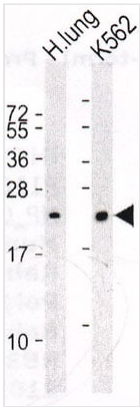
SFTPC; Polyclonal Antibody; SFTPC Antibody (C-term); Pulmonary surfactant-associated protein C; SP-C; Pulmonary surfactant-associated proteolipid SPL(Val); SP5; SFTP2; anti-SFTPC antibody

PRODUCT SPECIFICATIONS

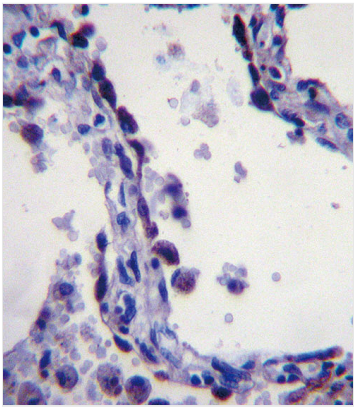
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This SFTPC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 144-173 amino acids from the C-terminal region of human SFTPC.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.49 (varies by lot)
Sequence Positions	144-173
Sequence Length	191
Applicable Applications for anti-SFTPC antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Pulmonary surfactant associated proteins promote alveolar stability by lowering the surface tension at the air- liquid interface in the peripheral air spaces.
Cellular Location	Secreted. extracellular space, surface film.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



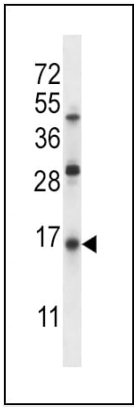
IF (Immunofluorescence)
Confocal immunofluorescent analysis of SFTPC Antibody (C-term) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)
All lanes: Anti-SFTPC Antibody (C-term) at 1:2000 dilution
Lane 1: human lung lysates
Lane 2: K562 whole cell lysates
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit igG. (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size: 21 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



IHC (Immunohistochemistry)
SFTPC in human lung adenocarcinoma sections by Immunohistochemistry (IHC-Paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



WB (Western Blot)
SFTPC Antibody (C-term) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the SFTPC antibody detected the SFTPC protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-SFTPC antibody	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.
Product Categories/Family for anti-SFTPC antibody	Cancer; Cardiovascular; Metabolism; Signal transduction

References	Wambach, J.A., et al. <i>Pediatr. Res.</i> 68(3):216-220(2010) Schuurhof, A., et al. <i>Pediatr. Pulmonol.</i> 45(6):608-613(2010) Thouvenin, G., et al. <i>Arch. Dis. Child.</i> 95(6):449-454(2010) Crossno, P.F., et al. <i>Chest</i> 137(4):969-973(2010) Davila, S., et al. <i>Genes Immun.</i> 11(3):232-238(2010)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	288915543
NCBI GeneID	6440
NCBI Accession #	NP_001165828.1; NP_001165881.1; NP_003009.2
NCBI GenBank Nucleotide #	NM_001172357.1
UniProt Accession #	P11686; P11687; Q12793; Q7Z5D0; A6XNE4; B2RE00; E9PGX3
Molecular Weight	21053
NCBI Official Full Name	pulmonary surfactant-associated protein C isoform 2 proprotein
NCBI Official Synonym Full Names	surfactant protein C
NCBI Official Symbol	SFTPC
NCBI Official Synonym Symbols	SP-C; PSP-C; SFTP2; SMDP2; BRICD6
NCBI Protein Information	pulmonary surfactant-associated protein C
UniProt Protein Name	Pulmonary surfactant-associated protein C
UniProt Gene Name	SFTPC
UniProt Synonym Gene Names	SFTP2; SP-C
UniProt Entry Name	PSPC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sftpc-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/286640>