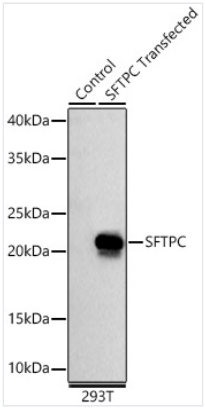
SFTPC Antibody – Rabbit Monoclonal

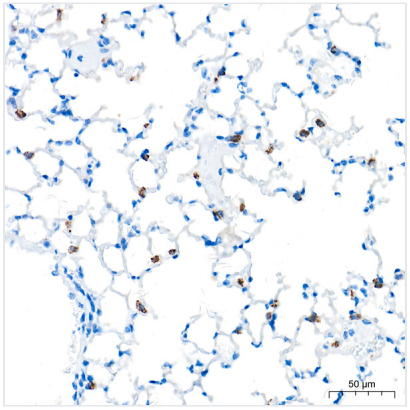
PRODUCT OVERVIEW

Product Name	SFTPC, Monoclonal Antibody
Full Product Name	SFTPC Rabbit PolymAb
Product Gene Name	anti-SFTPC antibody
Product Synonym Names	SP5; SP-C; PSP-C; SFTP2; SMDP2; BRICD6
Immunogen Sequence	TATFSIGSTG LVVYDYQQLL IAYKPAPGTC CYIMKIAPES IPSLEALTRK VHNFQMECSL QAKPAVPTSK LGQAEGRDAG SAPSGGDPAF LGMAVSTLCG
Clonality	Monoclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated MW: 21kDa Observed MW: 21kDa
OMIM	phenotype 610913
3D Structure	ModBase 3D Structure for P11686
Cross Reactivity	Human, Mouse
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 91-190 of human SFTPC (NP_003009.2).
Product Categories/Family for anti-SFTPC antibody	Cancer; Signal Transduction; Endocrine Metabolism; Lipid Metabolism; Cholesterol Metabolism; Cardiovascular; Lipids; Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SFTPC antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-SFTPC antibody	WB: 1:10000-1:100000 IHC-P: 1:4000-1:16000 IF/ICC: 1:200-1:800 ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
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.

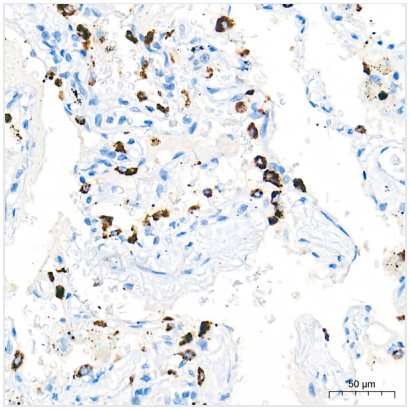
Other Notes	Small volumes of anti-SFTPC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SFTPC purchase	MBS9148145 is an antibody targeting SFTPC. Also known as SFTPC Rabbit PolymAb. Reactive in Human. Host: Rabbit.



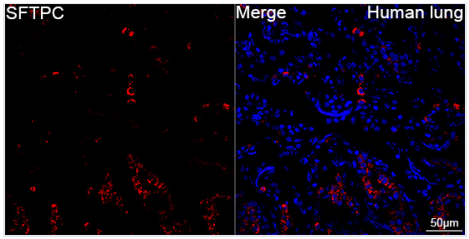
Western Blot (WB) of anti-SFTPC antibody
Western blot analysis of lysates from 293T cells using SFTPC Rabbit PolymAb® (MBS9148145) at 1:10000 dilution incubated overnight at 4?.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 20 ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 0.5s.



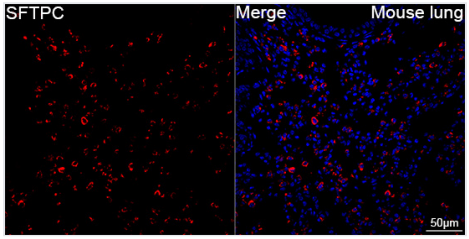
Immunohistochemistry (IHC) of anti-SFTPC antibody
Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using SFTPC Rabbit PolymAb® (MBS9148145) at a dilution of 1:13000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry (IHC) of anti-SFTPC antibody
Immunohistochemistry analysis of paraffin-embedded Human lung tissue using SFTPC Rabbit PolymAb® (MBS9148145) at a dilution of 1:13000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunocytochemistry (ICC) of anti-SFTPC antibody
Confocal imaging of paraffin-embedded Human lung tissue using SFTPC Rabbit PolymAb® (A26944-PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunocytochemistry (ICC) of anti-SFTPC antibody
Confocal imaging of paraffin-embedded Mouse lung tissue using SFTPC Rabbit PolymAb® (A26944-PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SFTPC. It may not necessarily be applicable to this product.

NCBI GI #	131425
NCBI GeneID	6440
NCBI Accession #	P11686.2
UniProt Primary Accession #	P11686
UniProt Secondary Accession #	P11687; Q12793; Q7Z5D0; A6XNE4; B2RE00; E9PGX3
UniProt Related Accession #	P11686
UniProt Protein Name	Pulmonary surfactant-associated protein C
UniProt Synonym Protein Names	Pulmonary surfactant-associated proteolipid SPL(Val); SP5
Protein Family	Pulmonary surfactant-associated protein
UniProt Gene Name	SFTPC
UniProt Synonym Gene Names	SFTP2; SP-C
UniProt Entry Name	PSPC_HUMAN
UniProt Comments for SFTPC	SFTPC: Pulmonary surfactant associated proteins promote alveolar stability by lowering the surface tension at the air- liquid interface in the peripheral air spaces. Defects in SFTPC are the cause of pulmonary surfactant metabolism dysfunction type 2 (SMDP2); also called pulmonary alveolar proteinosis due to surfactant protein C deficiency. A rare disease associated with progressive respiratory insufficiency and lung disease with a variable clinical course, due to impaired surfactant homeostasis. It is characterized by alveolar filling with floccular material that stains positive using the periodic acid-Schiff method and is derived from surfactant phospholipids and protein components. Excessive lipoproteins accumulation in the alveoli results in severe respiratory distress. Genetic variations in SFTPC are a cause of susceptibility to respiratory distress syndrome in premature infants (RDS); also known as RDS in prematurity. RDS is a lung disease affecting usually premature newborn infants. It is characterized by deficient gas exchange, diffuse atelectasis, high-permeability lung edema and fibrin-rich alveolar deposits called 'hyaline membranes'. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid-binding Chromosomal Location of Human Ortholog: 8p21 Cellular Component: multivesicular body; extracellular space Molecular Function: protein binding; protein homodimerization activity Biological Process: circadian rhythm; response to cAMP; response to hyperoxia; response to retinoic acid; response to glucocorticoid stimulus; response to glucose stimulus; response to lipopolysaccharide; respiratory gaseous exchange; protein homooligomerization; response to vitamin A Disease: Pulmonary Fibrosis, Idiopathic; Surfactant Metabolism Dysfunction, Pulmonary, 2
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