10320 Camino Santa Fe, Suite G
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SFTPC Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1788a

Specification

SFTPC Antibody - Product Information

Application	**E, WB**
Primary Accession	P11686
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**21kDa KDa**

Description
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.

Immunogen
Purified recombinant fragment of human SFTPC (AA: 60-180) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

SFTPC Antibody - Additional Information

Gene ID 6440

Other Names
Pulmonary surfactant-associated protein C, SP-C, Pulmonary surfactant-associated proteolipid SPL(Val), SP5, SFTPC, SFTP2

Dilution
E~~1/10000
WB~~1/500 - 1/2000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SFTPC Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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SFTPC Antibody - Protein Information

Name SFTPC

Synonyms SFTP2

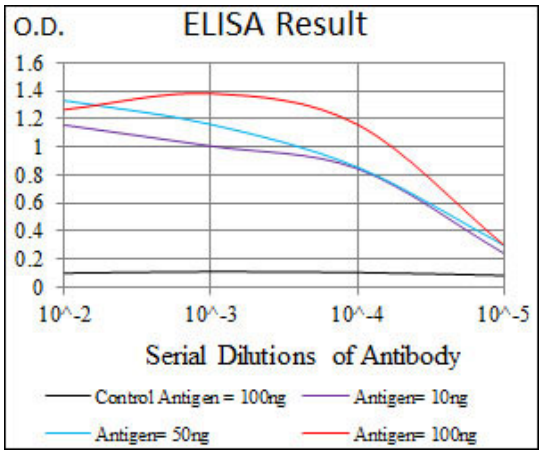
Function
Pulmonary surfactant associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces.

Cellular Location
Secreted, extracellular space, surface film.

SFTPC Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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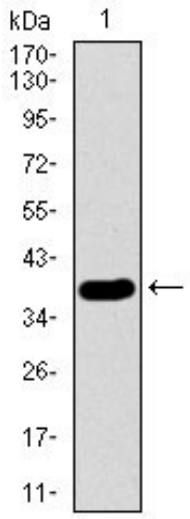


Figure 1: Western blot analysis using SFTPC mAb against human SFTPC recombinant protein. (Expected MW is 38.4 kDa)

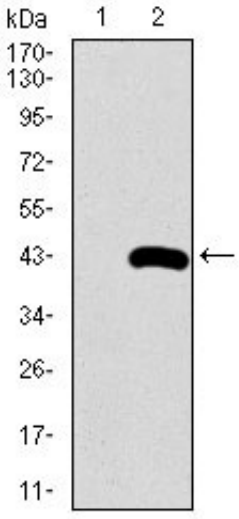


Figure 2: Western blot analysis using SFTPC mAb against HEK293 (1) and SFTPC (AA: 60-180)-hIgGFc transfected HEK293 (2) cell lysate.

SFTPC Antibody - References

1.Am J Respir Cell Mol Biol. 2011 Sep;45(3):498-509. 2.J Biol Chem. 2009 Nov 27;284(48):33377-83.