

Anti-SFTPA1/2 Picoband Antibody
Catalog # ABO12081**Specification****Anti-SFTPA1/2 Picoband Antibody - Product Information**

Application	WB, IHC-P, IHC-F
Primary Accession	Q8IWL1
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Pulmonary surfactant-associated protein A1/Pulmonary surfactant-associated protein A2(SFTPA1/2) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SFTPA1/2 Picoband Antibody - Additional Information**Gene ID** 729238**Other Names**

Pulmonary surfactant-associated protein A2, PSP-A, PSPA, SP-A, SP-A2, 35 kDa pulmonary surfactant-associated protein, Alveolar proteinosis protein, Collectin-5, SFTPA2, COLEC5, PSAP, SFTP1, SFTPA, SFTPA2B

Calculated MW

26182 MW KDa

Application Details

Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Mouse, Rat,
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Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
-

Subcellular Localization

Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film.

Protein Name

Pulmonary surfactant-associated protein A1/Pulmonary surfactant-associated protein A2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human SFTPA1/2(206-237aa VNYTNWYRGEPAGRGKEQCVEMYTDGQWNDRN), different from the related mouse sequence by four amino acids, and from the related rat sequence by five amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the SFTPA family.

Anti-SFTPA1/2 Picoband Antibody - Protein Information**Name** SFTPA2**Synonyms** COLEC5, PSAP, SFTP1, SFTPA, SFTPA2B**Function**

In presence of calcium ions, it binds to surfactant phospholipids and contributes to lower the surface tension at the air- liquid interface in the alveoli of the mammalian lung and is essential for normal respiration.

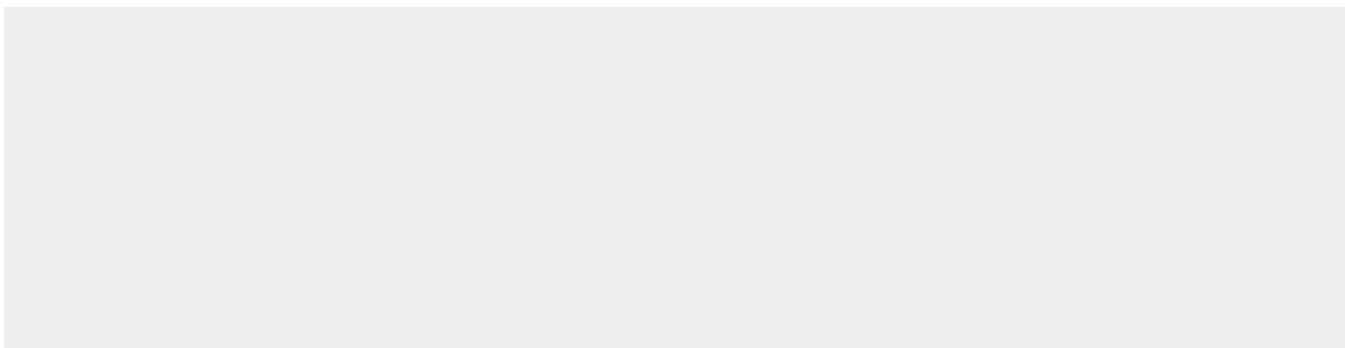
Cellular Location

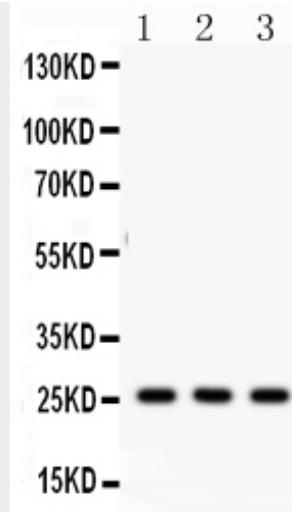
Secreted. Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film

Anti-SFTPA1/2 Picoband Antibody - Protocols

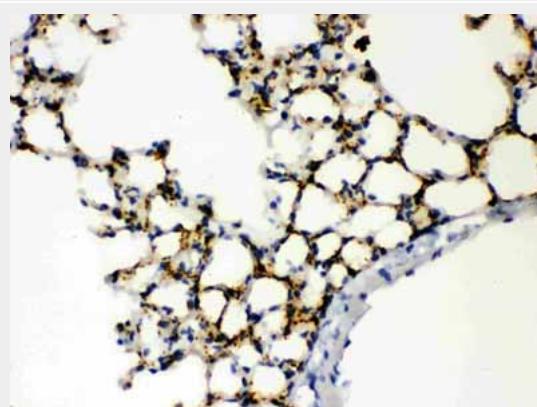
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

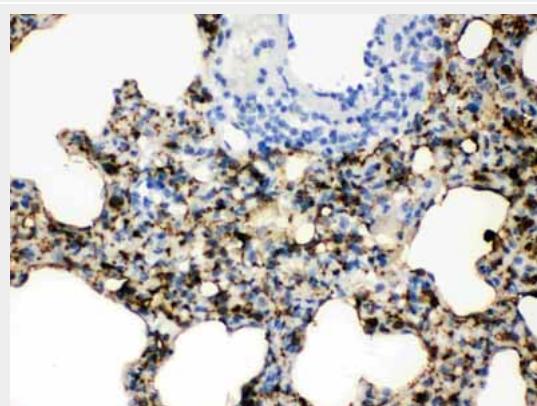
Anti-SFTPA1/2 Picoband Antibody - Images



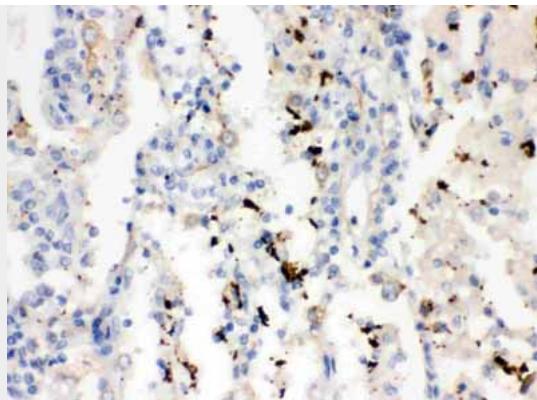
Anti- SFTP A1/2 Picoband antibody, ABO12081, Western blotting
All lanes: Anti SFTP (ABO12081) at 0.5ug/ml
Lane 1: Rat Lung Tissue Lysate at 50ug
Lane 2: Mouse Lung Tissue Lysate at 50ug
Lane 3: A549 Whole Cell Lysate at 40ug
Predicted bind size: 26KD
Observed bind size: 26KD



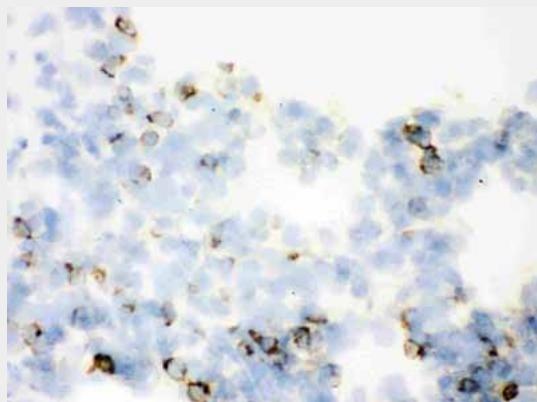
Anti- SFTP A1/2 Picoband antibody, ABO12081, IHC(P)
IHC(P): Mouse Lung Tissue



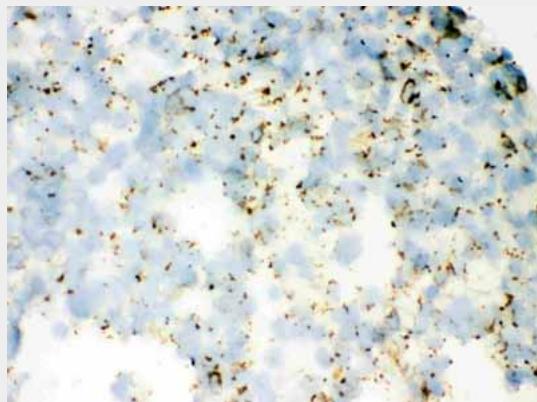
Anti- SFTP A1/2 Picoband antibody, ABO12081, IHC(P)
IHC(P): Rat Lung Tissue



Anti- SFTP A1/2 Picoband antibody, ABO12081, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti- SFTP A1/2 Picoband antibody, ABO12081, IHC(F)IHC(F): Rat Lung Tissue



Anti- SFTP A1/2 Picoband antibody, ABO12081, IHC(F)IHC(F): Mouse Lung Tissue

Anti-SFTPA1/2 Picoband Antibody - Background

SFTPA1/2 is also known as SP-A. SFTPA1 encodes a lung surfactant protein that is a member of a subfamily of C-type lectins called collectins. The encoded protein binds specific carbohydrate moieties found on lipids and on the surface of microorganisms. This protein plays an essential role in surfactant homeostasis and in the defense against respiratory pathogens. Mutations in this gene are associated with idiopathic pulmonary fibrosis. Alternate splicing results in multiple transcript variants. SFTPA2 is one of several genes encoding pulmonary-surfactant associated proteins (SFTPA) located on chromosome 10. Mutations in this gene and a highly similar gene located nearby, which affect the highly conserved carbohydrate recognition domain, are associated with idiopathic pulmonary fibrosis. The current version of the assembly displays only a single centromeric SFTPA gene pair rather than the two gene pairs shown in the previous assembly which

were thought to have resulted from a duplication.