

Anti-SFTPA1/2 Picoband Antibody

Catalog # ABO12081

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.

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	26169
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Mouse, Rat, - 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.
Source	Eukaryota
Protein Name	Pulmonary surfactant-associated protein A1/Pulmonary surfactant-associated protein A2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SFTPA1/2(206-237aa VNYTNWYRGEPAGRGKEQCVEMYTDGQWDRN), 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.

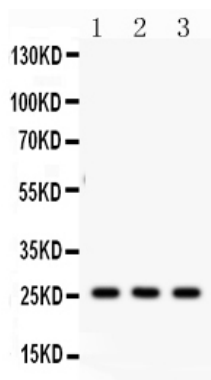
Protein Information

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

Background

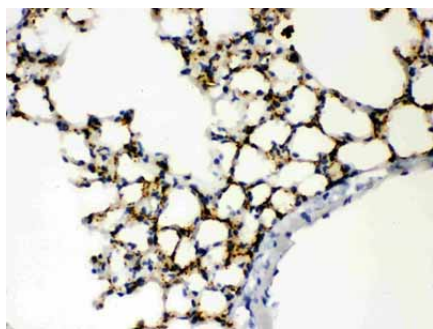
SFTPA1/2 is also known as SP-A. SFTPA1 encodes a lung surfactant protein that is a member of a subfamily of C-type lectins called collectins. The encoded protein binds specific carbohydrate moieties found on lipids and on the surface of microorganisms. This protein plays an essential role in surfactant 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.

Images

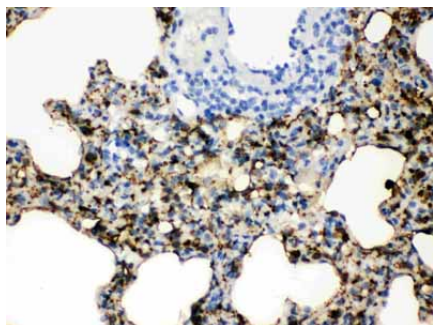


Anti- SFTP A1/2 Picoband antibody, ABO12081, Western blottingAll lanes: Anti SFTP (ABO12081) at 0.5ug/mlLane 1: Rat Lung Tissue Lysate at 50ugLane 2: Mouse Lung Tissue Lysate at 50ugLane 3: A549 Whole Cell Lysate at 40ugPredicted bind size: 26KDObserved bind size: 26KD

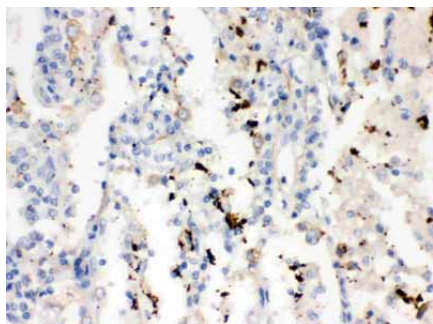
Anti- SFTP A1/2 Picoband antibody, ABO12081, IHC(P)IHC(P): Mouse Lung Tissue



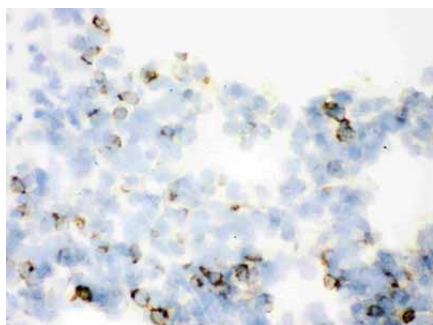
Anti- SFTP A1/2 Picoband antibody, ABO12081,
IHC(P)IHC(P): Rat Lung Tissue



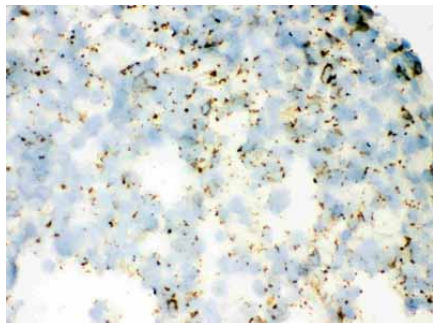
Anti- SFTP A1/2 Picoband antibody, ABO12081,
IHC(P)IHC(P): Human Lung Cancer Tissue



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



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.