

Rabbit Anti-SFTPA1 antibody

SL10265R

Product Name	SFTPA1
Chinese Name	肺表面活性蛋白 A 抗体
Alias	SP-A; Surfactant Protein A; pulmonary surfactant-associated glycoprotein A; Pulmonary surfactant-associated protein A2 precursor; SP-A2; PSP-A; PSPA; Alveolar proteinosis protein; 35 kDa pulmonary surfactant-associated protein; COLEC4; MGC133365; Pulmonary surfactant apoprotein; Pulmonary surfactant associated protein; SFTP1; SFTPA; SFTPA1; SFTPA1B; SP A; SP A1; Surfactant pulmonary associated protein A1; SFTPA_MOUSE; Collectin-5; Sftp-1.
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Mouse,Rat,GuineaPig) WB=1:500-2000,ELISA=1:5000-10000
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	25kDa
Cellular localization	Extracellular matrix Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse SFTPA: 145-248/248
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

This gene 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. [provided by RefSeq, Sep 2009].

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.

Subunit:

Oligomeric complex of 6 set of homotrimers.

Subcellular Location:

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

Product Detail

DISEASE:

Defects in SFTPA2 are a cause of pulmonary fibrosis idiopathic (IPF) [MIM:178500]. Pulmonary fibrosis is a lung disease characterized by shortness of breath, radiographically evident diffuse pulmonary infiltrates, and varying degrees of inflammation and fibrosis on biopsy. It results in acute lung injury with subsequent scarring and endstage lung disease.

Similarity:

Belongs to the SFTPA family.
Contains 1 C-type lectin domain.
Contains 1 collagen-like domain.

SWISS:

P35242.1

Gene ID:

20387

Database links:

[Entrez Gene: 610540](#) Dog

[Entrez Gene: 653509](#) Human



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[Entrez Gene: 20387](#) Mouse

[Omin: 178630](#) Human

[SwissProt: P06908](#) Dog

[SwissProt: Q8IWL2](#) Human

[Unigene: 535295](#) Human