



SP-A Polyclonal Antibody

Catalog No	YP-Ab-04311
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	SFTPA2/SFTPA1
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human SFTPA1/2. AA range:141-190
Specificity	SP-A Polyclonal Antibody detects endogenous levels of SP-A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SFTPA1;SFTPA2;35 kDa pulmonary surfactant-associated protein;COLEC4;Collectin 4;SP-A;SFTPA2/SFTPA1;Pulmonary surfactant-associated protein A2/Pulmonary surfactant-associated protein A1;COLEC5;PSAP;SFTP1;SFTPA;SFTPA2B;Pulmonary surfactant-associated protein A2;PSP-A;PSPA;SP-A2;Alveolar proteinosis protein;Collectin-5;SFTPA1B;Pulmonary surfactant-associated protein A1;SP-A1;Collectin-4
Observed Band	34kD
Calculated Molecular Weight	34kD
Cell Pathway	Secreted . Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, surface film.
Tissue Specificity	
Function	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., miscellaneous:Pulmonary surfactant consists of 90% lipid and 10% protein. There are 4 surfactant-associated proteins: 2 collagenous, carbohydrate-binding glycoproteins (SP-A and SP-D) and 2 small hydrophobic proteins (SP-B and SP-



C).,polymorphism:At least 6 alleles of SFTPA2 are known: 1A, 1A(0), 1A(1), 1A(2), 1A(3) and 1A(4). The sequence shown is that of allele 1A(0)., similarity:Belongs to the SFTPA family.,similarity:Contains 1 C-type lectin domain.,similarity:Contains 1 collagen-like domain.,subunit:Oligomeric complex of 6 set of homotrimers.,

Background

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],

matters needing attention

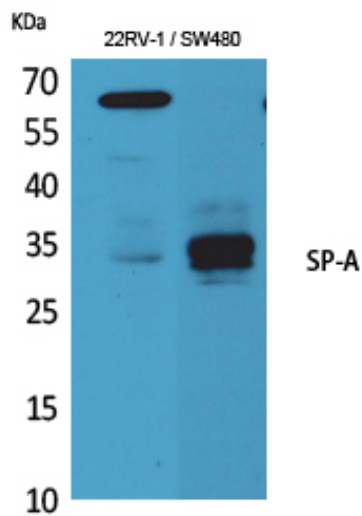
Avoid repeated freezing and thawing!

Usage suggestions

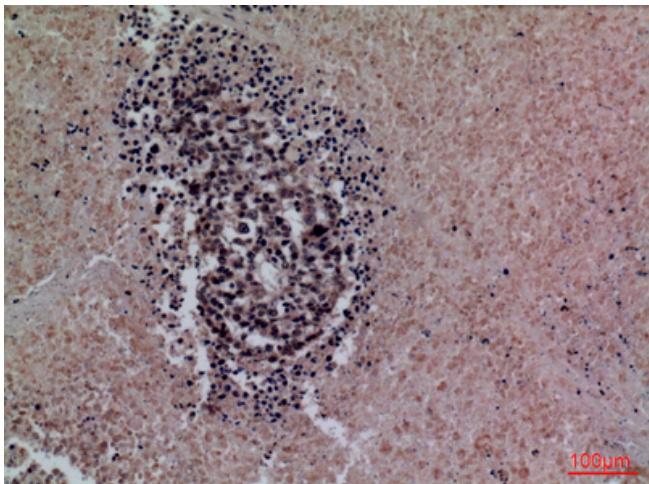
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



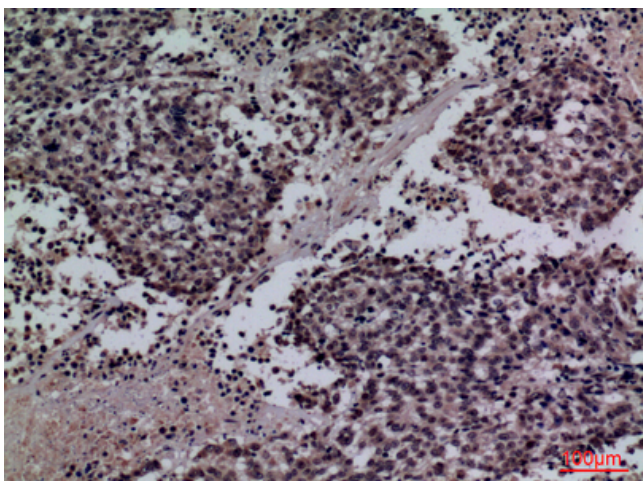
Products Images



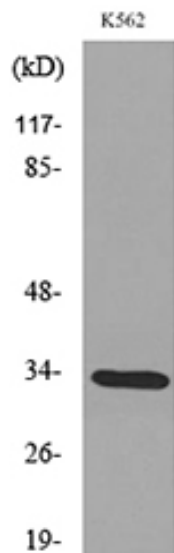
Western Blot analysis of 22RV-1 and SW480 cell lysis, mouse lung cells using SP-A Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-lung-cancer, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-lung-cancer, antibody was diluted at 1:100



Western blot analysis of lysate from K562 cells, using SFTPA1/2 Antibody.