

## Basic Information

Product Name	Anti-Surfactant protein D/SFTPD Antibody	
Gene Name	SFTPD	
Source	Rabbit	
Isotype	IgG	
Species Reactivity	human, rat	
Tested Application	WB, IHC, IHC-F, ICC, ELISA	
Contents	500 ug/ml antibody with PBS , 0.02% Na <sub>3</sub> N , 1 mg BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Surfactant protein D (292-321aa RSAAENAALQQLVVAKNEAAFLSMTD SKTE), different from the related mouse and rat sequences by eight amino acids.	
concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	38KD	
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunohistochemistry in frozen section (IHC-F): 1:50-400 Immunocytochemistry: 1:50-400 ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Surfactant, pulmonary-associated protein D, also known as SFTPD or SP-D, is a protein which in humans is encoded by the SFTPD gene. It is mapped to 10q22.2-q23.1. The protein encoded by this gene is part of the innate immune response, protecting the lungs against inhaled microorganisms and chemicals. The encoded protein may also be involved in surfactant metabolism.

## Selected Validation Data

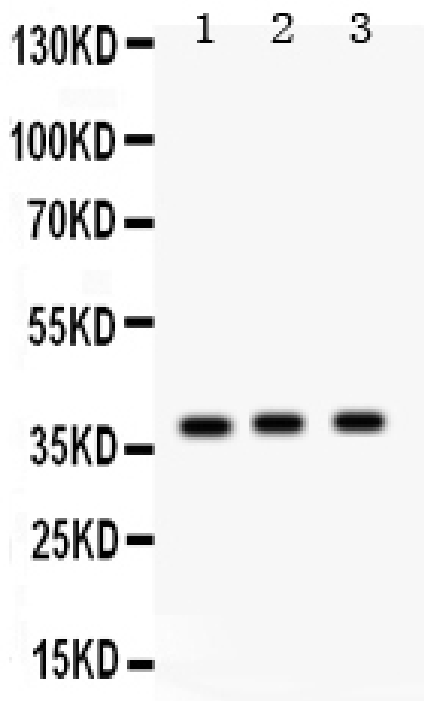


Figure 1. Western blot analysis of Anti-SFTPD antibody (PB0655). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat lung tissue lysates, Lane 2: Rat brain tissue lysates, Lane 3: PANC whole cell lysates, Use rabbit Anti-SFTPD 1:1000, probed with a goat Anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for SFTPD at approximately 38KD. The expected band size for SFTPD is at 38KD.

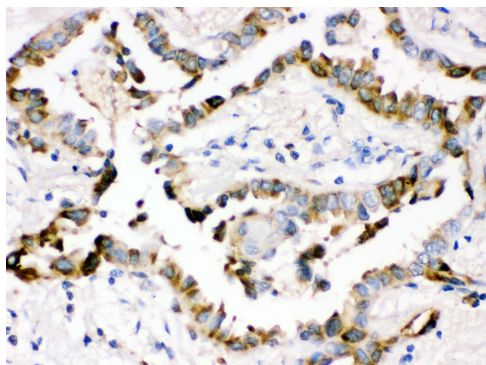


Figure 2. IHC analysis using Anti-SFTPD antibody (PB0655) detected in paraffin-embedded section of human lung cancer tissue. Biotinylated goat Anti-rabbit IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.