

## Anti-Surfactant protein D/SFTPD Antibody (7G581)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Rhesus
Conjugation:	Unconjugated
Clone:	7G581
Purification:	Protein A

## Applications

Verified Activity:	Immunochemical staining of Rhesus SFTPD in Rhesus lung with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Rhesus SFTPD / SP-D / SFTP4 protein (TMPY-01634)
Antigen Species:	Rhesus
Synonyms:	surfactant protein D

## Research Background

Surfactant pulmonary-associated protein D, also known as SFTPD and SP-D, is a member of the collectin family of C-type lectins that is synthesized in many tissues including respiratory epithelial cells in the lung, and contains one C-type lectin domain and one collagen-like domain. The polymorphic variation in the N-terminal domain of the SP-D molecule influences oligomerization, function, and the concentration of the molecule in serum. SFTPD is produced primarily by alveolar type II cells and nonciliated bronchiolar cells in the lung and is constitutively secreted into the alveoli where it influences surfactant homeostasis, effector cell functions, and host defense. It is upregulated in a variety of inflammatory and infectious conditions including Pneumocystis pneumonia and asthma. SFTPD is humoral molecules of the innate immune system, and is considered a functional candidate in chronic periodontitis. Besides, it is involved in the development of acute and chronic inflammation of the lung. Several human lung diseases are characterized by decreased levels of bronchoalveolar SFTPD. Thus, recombinant SFTPD has been proposed as a therapeutic option for cystic fibrosis, neonatal lung disease and smoking-induced emphysema. Furthermore, SFTPD serum levels can be used as disease activity markers for interstitial lung diseases.

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