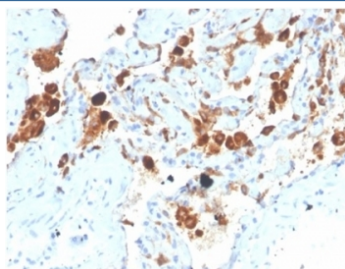


## Surfactant protein D Antibody / SFTPD [clone SFTPD/4363] (V9563)

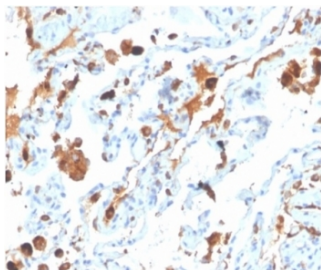
| Catalog No.    | Formulation                                                             | Size   |
|----------------|-------------------------------------------------------------------------|--------|
| V9563-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9563-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V9563SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

[Bulk quote request](#)

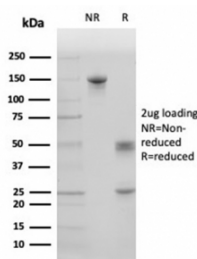
|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                                      |
| <b>Species Reactivity</b> | Human                                                                  |
| <b>Format</b>             | Purified                                                               |
| <b>Clonality</b>          | Monoclonal (mouse origin)                                              |
| <b>Isotype</b>            | Mouse IgG2c, kappa                                                     |
| <b>Clone Name</b>         | SFTPD/4363                                                             |
| <b>Purity</b>             | Protein A/G affinity                                                   |
| <b>UniProt</b>            | P35247                                                                 |
| <b>Localization</b>       | Secreted                                                               |
| <b>Applications</b>       | Immunohistochemistry (FFPE) : 1-2ug/ml                                 |
| <b>Limitations</b>        | This Surfactant protein D antibody is available for research use only. |



IHC staining of FFPE human lung tissue with Surfactant Protein D antibody (clone SFTPD/4363). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

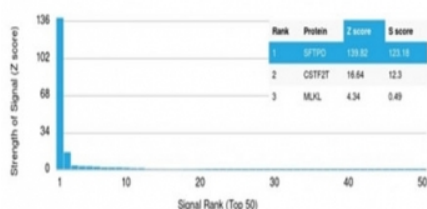


IHC staining of FFPE human lung tissue with Surfactant Protein D antibody (clone SFTPD/4363). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Surfactant protein D antibody (clone SFTPD/4363) as confirmation of integrity and purity.

Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Surfactant protein D antibody (clone SFTPD/4363). These results demonstrate the foremost specificity of the SFTPD/4363 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD&#39;s) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD&#39;s) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

## Description

Pulmonary surfactant is primarily responsible for lowering the surface tension at the air-liquid interface in the alveoli, a process that is essential for normal respiration. Pulmonary surfactant is a mixture of phospholipids and proteins, including four distinct surfactant-associated proteins (SPs), SP-A, SP-B, SP-C, SP-D. SP-B and SP-C are predominantly hydrophobic proteins that associate with lipids to promote the absorption of surfactant phospholipids and to reduce the surface tension in the alveoli. SP-A and SP-D are large multimeric proteins belonging to the family of calcium-dependent lectins, designated Collectins, which contribute to the innate immune system. Both SP-A and SP-D have been shown to protect against microbial challenge through binding to the lipid components of the bacterial cell wall and facilitating the rapid removal of microbials.

## Application Notes

Optimal dilution of the Surfactant protein D antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 241-336 was used as the immunogen for the Surfactant protein D antibody.

## Storage

Aliquot the Surfactant protein D antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

