# Recombinant Pulmonary Surfactant-Associated Protein D (SFTPD) Antibody

Rabbit Monoclonal Antibody [Clone SFTPD/7086R]

| Catalog No | Format | Size |
|---|---|---|
| 6441-RBM9-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 6441-RBM9-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 6441-RBM9-P1ABX | Purified Ab WITHOUT BSA or Azide at 1.0mg/ml | 100 ug |

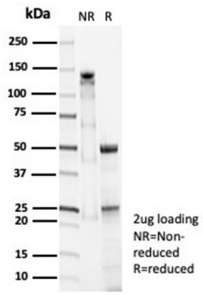
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

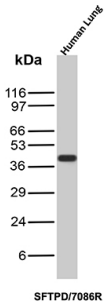
| | |
|---|---|
| **Clone** | SFTPD/7086R |
| **Immunogen** | Recombinant fragment (around aa241-336) of the human Surfactant Protein D protein (exact sequence is proprietary) |
| **Host** | Rabbit |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG / Kappa |
| **Mol. Weight of Antigen** | 37.73kDa |
| **Cellular Localization** | Extracellular matrix, Extracellular space, Secreted, Surface film |
| **Species Reactivity** | Human |
| **Positive Control** | Epithelial cells of the lung, Skin, small intestine or bladder. |

**Optimal dilution for a specific application should be determined.*

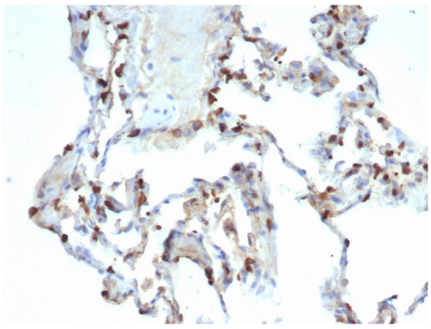
## Product Images for Recombinant Pulmonary Surfactant-Associated Protein D (SFTPD) Antibody




SDS-PAGE Analysis of Purified SFTPD Recombinant Rabbit Monoclonal Antibody (SFTPD/7086R). Confirmation of Purity and Integrity of Antibody.




Western blot analysis of Human Lung lysate using SFTPD Rabbit Recombinant Monoclonal Antibody (SFTPD/7086R).



Formalin-fixed, paraffin-embedded human lung carcinoma stained with Surfactant Protein D Recombinant Rabbit Monoclonal (SFTPD/7086R).

## Specificity & Comments

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.

## Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.