Recombinant Pulmonary Surfactant-Associated Protein D (SFTPD) Antibody

Mouse Monoclonal Antibody [Clone rSFTPD/8065]

Catalog No	Format	Size
6441-MSM11-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
6441-MSM11-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
6441-MSM11-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

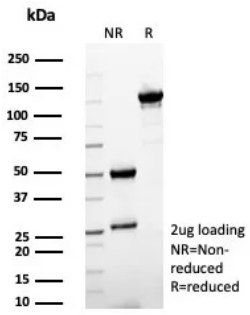
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

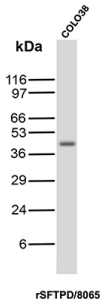
Clone	rSFTPD/8065
Immunogen	Recombinant fragment (around aa241-336) of the human Surfactant Protein D protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	37.73kDa
Cellular Localization	Extracellular matrix, Extracellular space, Secreted, Surface film
Species Reactivity	Human
Positive Control	Epithelial cells of the lung|Skin|small intestine or bladder. COLO38.

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

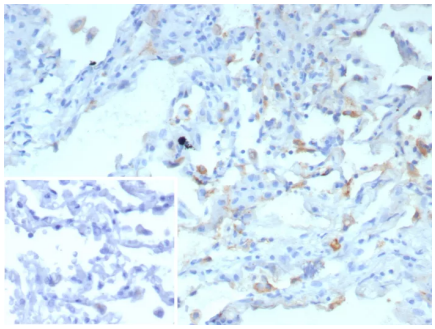
Product Images for Recombinant Pulmonary Surfactant-Associated Protein D (SFTPD) Antibody



SDS-PAGE Analysis of Purified SFTPD Recombinant Mouse Monoclonal Antibody (rSFTPD/8065). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of COLO38 cell lysate using SFTPD Mouse Recombinant Monoclonal Antibody (rSFTPD/8065).



Formalin-fixed, paraffin-embedded human lung stained with Surfactant Protein D Recombinant Mouse Monoclonal (rSFTPD/8065). Inset: PBS instead of primary antibody; secondary only negative control.

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