

Product datasheet for **AM00341SU-N**

SFTPB Mouse Monoclonal Antibody [Clone ID: 1B9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1B9
Applications:	IF, IHC
Recommended Dilution:	Immunofluorescence. Immunohistochemistry on Formalin-Fixed, Paraffin-Embedded Sections: 1/100 Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. Use Polymer anti Mouse/Rabbit IgG as a detection system. <i>Positive Control:</i> Lung adenocarcinoma.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Surfactant Protein B.
Specificity:	This antibody detects Surfactant Protein B (Mature). Cellular Localization: Cytoplasmic.
Formulation:	State: Supernatant State: Liquid Tissue Culture Supernatant with 0.2% BSA and 15mM Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	surfactant protein B
Database Link:	Entrez Gene 5395 Human Entrez Gene 6439 Human P07988



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Background:

ProSP-B is glycosylated in the Golgi apparatus and undergoes carboxy- and amino-terminal proteolysis by a cathepsin D-like protease. Pulmonary surfactant is a complex mixture of phospholipids and proteins that is secreted from type II cells in alveoli and reduces the surface tension at the alveolar air-liquid interface, providing alveolar stability necessary for normal ventilation. Four distinct proteins isolated from pulmonary surfactant are termed surfactant proteins A, B, C, and D. SP-A (28-36kDa) and SP-D (43kDa) are collagenous carbohydrate-binding proteins, whereas SP-B (8-9kDa) and SP-C (4kDa) are non-collagenous hydrophobic proteins. SP-B is expressed in pulmonary adenocarcinomas with acinar, papillary, bronchioloalveolar, and solid growth patterns. Squamous cell and large cell carcinomas of the lung and nonpulmonary adenocarcinomas do not express SP-B.

Synonyms:

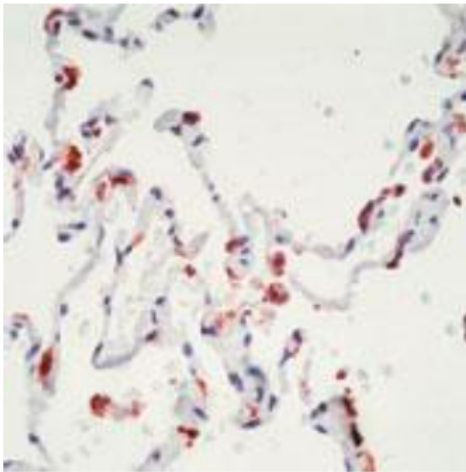
Surfactant protein B, SP-B, SFTP3

Protein Families:

Druggable Genome

Protein Pathways:

Mismatch repair

Product images:

Formalin-Fixed, Paraffin-Embedded Human lung stained with Surfactant antibody Cat.-No. AM00341SU-N using peroxidase conjugate and DAB chromogen. Note the cytoplasmic staining of type II pneumocytes.