

Anti-Human SFTPb Polyclonal Antibody

Polyclonal Antibody

Cat.NO.: PA05894

3th Edition

Description: This gene encodes the pulmonary-associated surfactant protein B (SPB), an amphipathic surfactant protein essential for lung function and homeostasis after birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90% lipids and 10% proteins which include plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. The surfactant is secreted by the alveolar cells of the lung and maintains the stability of pulmonary tissue by reducing the surface tension of fluids that coat the lung. The SPB enhances the rate of spreading and increases the stability of surfactant monolayers in vitro. Multiple mutations in this gene have been identified, which cause pulmonary surfactant metabolism dysfunction type 1, also called pulmonary alveolar proteinosis due to surfactant protein B deficiency, and are associated with fatal respiratory distress in the neonatal period.

Alternatively spliced transcript variants encoding the same protein have been identified. SFTPb (Surfactant Protein B) is a Protein Coding gene. Diseases associated with SFTPb include Surfactant Metabolism Dysfunction, Pulmonary, 1 and Sftpb-Related Pulmonary Surfactant Metabolism Dysfunction. Among its related pathways are Defective CSF2RA causes pulmonary surfactant metabolism dysfunction 4 (SMDP4) and Diseases of metabolism. An important paralog of this gene is PSAP.

Antigen: Synthesized peptide derived from the Internal region of human SP-B.

Form:

How to use: 1.0 ml distilled water will be added to the product

Stability: Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

Dilution: PBS (pH7.4) containing 1% BSA

Application: This antibody can be used for western blotting in concentration of 1?5?g/ml.

Specificity: