SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-SP-B/Surfactant Protein B antibody

Catalog Number: SL22341R

FOR RESEARCH USE ONLY

[DATASHEET]

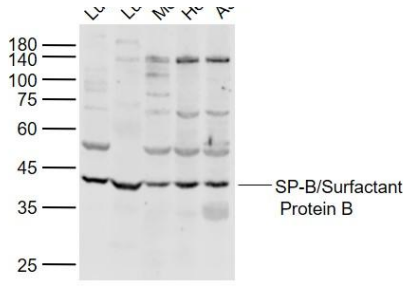
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SP-B/Surfactant Protein B
Immunogen:	KLH conjugated synthetic peptide derived from mouse SP-B: 141-240/377
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, Rat
Predicted MW.:	41kDa
Subcellular Location:	Secretory protein
Background:	Pulmonary surfactant-associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces. SP-B increases the collapse pressure of palmitic acid to nearly 70 millinewtons per meter.Homodimer; disulfide-linked. Secreted, extracellular space. **Function :** Pulmonary surfactant-associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces. SP-B increases the collapse pressure of palmitic acid to nearly 70 millinewtons per meter. **Function:** Pulmonary surfactant-associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces. SP-B increases the collapse pressure of palmitic acid to nearly 70 millinewtons per meter. **Subunit:** Homodimer; disulfide-linked. **Subcellular Location:** Secreted, extracellular space, surface film.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Similarity: Contains 1 saposin A-type domain. Contains 3 saposin B-type domains. **Database links:** **Entrez Gene:** 6439 Human **Entrez Gene:** 20388 Mouse Omim: 178640 Human **SwissProt:** P15781 Cow **SwissProt:** P07988 Human **SwissProt:** P50405 Mouse **Unigene:** 512690 Human **Unigene:** 46033 Mouse Pulmonary alveolar surfactant substance B (SP-B) also belongs to the sugar Binding protein family and participates in the formation and metabolism of the alveolar surface-active film. In addition to strong expression in type II cells, it is also focally expressed in bronchioles and bronchial epithelium. SP-B is a hydrophobic protein, and its main effect is to promote the adsorption and distribution of phospholipids to the alveolar air-liquid interface and promote the formation of a phospholipid monolayer. Only this phospholipid monolayer can reduce surface tension to the lowest level.

[VALIDATION IMAGES]



Sample:
Lane 1: Lung (Mouse) Lysate at 40 ug
Lane 2: Lung (Rat) Lysate at 40 ug
Lane 3: Molt-4 (Human) Cell Lysate at 30 ug
Lane 4: Hela (Human) Cell Lysate at 30 ug
Lane 5: A549 (Human) Cell Lysate at 30 ug
Primary: Anti-SP-B/Surfactant Protein B (SL22341R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 42 kD
Observed band size: 42 kD

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