



## Rabbit Anti-SP-B/Surfactant Protein B antibody

SL1034R

<b>Product Name:</b>	SP-B/Surfactant Protein B
<b>Chinese Name:</b>	肺表面活性蛋白B抗体
<b>Alias:</b>	18 kDa pulmonary surfactant protein; 18 kDa pulmonary-surfactant protein; 6 kDa protein; Pulmonary surfactant apoprotein PSP B; Pulmonary surfactant associated protein B 18kD; Pulmonary surfactant associated protein B; Pulmonary surfactant associated proteolipid SPL Phe; SFTB3; SFTP3; SFTP3; SFTP3 surfactant; Surfactant pulmonary associated protein B; Prosurfactant Protein B; pulmonary surfactant-associated glycoprotein B; proSP B; PSP B; PSPB; PSPB_MOUSE; Pulmonary surfactant-associated protein B; Pulmonary surfactant-associated proteolipid SPL(Phe); SFTB3; SFTP3; SFTP3; SP B; SPB.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Mouse,Rat,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	41kDa
<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from mouse SP-B:291-377/377
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>

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.

**Subunit:**

Homodimer; disulfide-linked.

**Subcellular Location:**

Secreted, extracellular space, surface film.

**Similarity:**

Contains 1 saposin A-type domain.  
Contains 3 saposin B-type domains.

**SWISS:**

P07988

**Gene ID:**

6439

**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

**Important Note:**

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

**Product Detail:**

肺泡表面活性物质B (SP-B) 也属糖Binding protein家族,参与肺泡表面活性膜的形成和代谢,除在 II 型细胞中强烈表达外,在细支气管、支气管上皮内也有灶性表达。SP-B是疏水性蛋白,主要效应是促进磷脂吸附和分布到肺泡气-液交界面,促进磷脂单分子层的形成,只有这种单分子层磷脂才能使表面张力降低到最低水平。

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