**BACKGROUND**

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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SFTPC (mouse) mapping to 14 D2.

**SOURCE**

SP-C (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SP-C of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-7706 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

SP-C (M-20) is recommended for detection of SP-C precursor of mouse, rat and mink origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with mature SP-C.

Suitable for use as control antibody for SP-C siRNA (m): sc-36540, SP-C shRNA Plasmid (m): sc-36540-SH and SP-C shRNA (m) Lentiviral Particles: sc-36540-V.

Molecular Weight of SP-C precursor: 21 kDa.

Molecular Weight of mature SP-C: 4-11 kDa.

Positive Controls: rat lung extract: sc-2396 or mouse lung extract: sc-2390.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**