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Anti-Surfactant Protein B Antibody

Catalog # AP51509

Product Information

Application	WB, IF/IC
Primary Accession	P07988
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42117

Additional Information

Gene ID	6439
Other Names	SFTP3; Pulmonary surfactant-associated protein B; SP-B; 18 kDa pulmonary-surfactant protein; 6 kDa protein; Pulmonary surfactant-associated proteolipid SPL(Phe)
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Surfactant Protein B. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

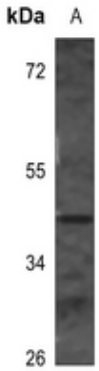
Name	SFTPB
Synonyms	SFTP3
Function	Pulmonary surfactant-associated proteins promote alveolar stability by lowering the surface tension at the air-liquid interface in the peripheral air spaces. SP-B increases the collapse pressure of palmitic acid to nearly 70 millinewtons per meter.
Cellular Location	Secreted, extracellular space, surface film.

References

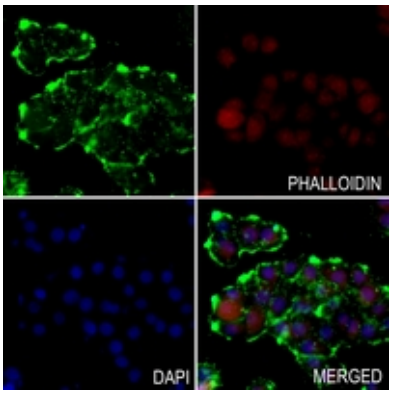
Jacobs K.A.,et al.J. Biol. Chem. 262:9808-9811(1987).

Pilot-Matias T.J.,et al.DNA 8:75-86(1989).
Glasser S.W.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:4007-4011(1987).
Revak S.D.,et al.J. Clin. Invest. 81:826-833(1988).
Johansson J.,et al.FEBS Lett. 301:165-167(1992).

Images



Western blot analysis of Surfactant Protein B expression in A549 (A) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 42 kD)



Immunofluorescent analysis of Surfactant Protein B staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).