BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Prosurfactant Protein C/SFTPC Antibody Picoband®

Catalog Number: A02001

About Sftpc

SFTPC (Surfactant pulmonary -associated protein C), also known as SFTP2, SPC, PSP-C or PULMONARY SURFACTANT PROTEIN SP5, is a protein that in humans is encoded by the SFTPC gene. It is a membrane protein which manufactures surfactant. Glasser et al. (1988) assigned the SFTPC gene, symbolized SFTP2 by the Human Gene Mapping nomenclature committee, to chromosome 8 by hybridization to somatic cell hybrid DNA. Wood et al. (1994) identified 4 cosmids at the SFTP2 locus by cDNA hybridization. Using a polymorphic CA repeat in the SFTP2 gene and linkage analysis in 8 CEPH families, they located the gene close to D8S298; maximum lod = 19.3 at theta = 0.01. They regionalized the gene to 8p21 by fluorescence in situ hybridization. Moore et al. (1992) showed that the corresponding mouse gene, Sftp2, maps to chromosome 14.

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Overview

Product Name	Anti-Prosurfactant Protein C/SFTPC Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Prosurfactant Protein C/SFTPC Antibody Picoband® catalog # A02001. Tested in ELISA, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P21841

Technical Details

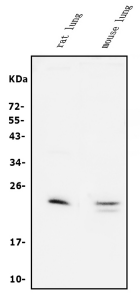
Immunogen	E.coli-derived mouse Prosurfactant Protein C/SFTPC recombinant protein (Position: S98-I193).

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Mouse, Rat ELISA, 0.1-0.5ug/ml, -

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Anti-Prosurfactant Protein C/SFTPC Antibody Picoband® (A02001) Images



Western blot analysis of Prosurfactant Protein C/SFTPC using anti-Prosurfactant Protein C/SFTPC antibody (A02001). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat lung tissue lysates, Lane 2: mouse lung tissue lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Prosurfactant Protein C/SFTPC antigen affinity purified polyclonal antibody (Catalog # A02001) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Prosurfactant Protein C/SFTPC at approximately 21KD. The expected band size for Prosurfactant Protein C/SFTPC is at 21KD.

2 Publications Citing This Product

1. PubMed ID: 32977282, Yang L,Liu G,Fu L,Zhong W,Li X,Pan Q. DNA repair enzyme OGG1 promotes alveolar progenitor cell renewal and relieves PM2.5-induced lung injury and fibrosis. Ecotoxicol Environ Saf.2020 Dec 1;205:111283.doi: 10.1016/j.ecoenv.2020.111283. Epub 2020 Sep 22.PM

2. PubMed ID: 31851532, Fan Y,Zhang G,Vong CT,Ye RD.Serum amyloid A3 confers protection against acute lung injury in Pseudomonas aeruginosa-infected mice. Am J Physiol Lung Cell Mol Physiol.2020 Feb 1;318(2):L314-L322.doi:10.1152/ ajplung.00309.2019.Epub 2019 Dec 18.PMID:3185153

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