Datasheet for ABIN7443620

anti-Surfactant Protein C antibody (AA 1-193)

4 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	Surfactant Protein C (SFTPC)
Binding Specificity:	AA 1-193
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Surfactant Protein C antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Purpose:	Polyclonal Antibody to Surfactant Protein C (SP-C)
Immunogen:	Recombinant Surfactant Protein C (SP-C) corresdonding to Met1~Ile193 with N-terminal His and GST Tag
Isotype:	IgG
Specificity:	The antibody is a rabbit polyclonal antibody raised against SP-C. It has been selected for its ability to recognize SP-C in immunohistochemical staining and western blotting.
Cross-Reactivity:	Rat
Purification:	Antigen-specific affinity chromatography followed by Protein A affinity chromatography

Target Details

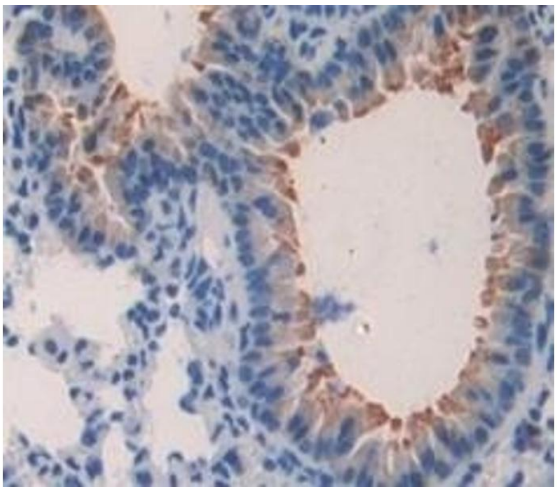
Target:	Surfactant Protein C (SFTPC)
Alternative Name:	Surfactant Protein C (SFTPC Products)
Background:	SFTPC, PSP-C, SFTP2, SPC, SP5, Surfactant Associated Protein C, Pulmonary Surfactant Protein C, Pulmonary surfactant-associated proteolipid SPL(Val)

Application Details

Application Notes:	Western blotting: 0.5-2 µg/mL Immunohistochemistry: 5-20 µg/mL Immunocytochemistry: 5-20 µg/mL Optimal working dilutions must be determined by end user.
Comment:	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Restrictions:	For Research Use only

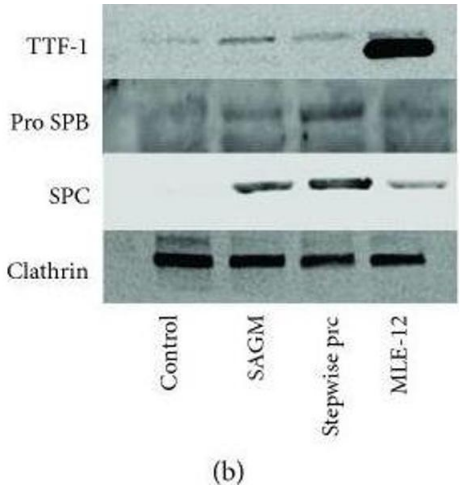
Handling

Format:	Liquid
Buffer:	0.01M PBS, pH 7.4, containing 0.05 % Proclin-300, 50 % glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for frequent use. Stored at -20°C in a manual defrost freezer for two year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Expiry Date:	24 months



Immunohistochemistry

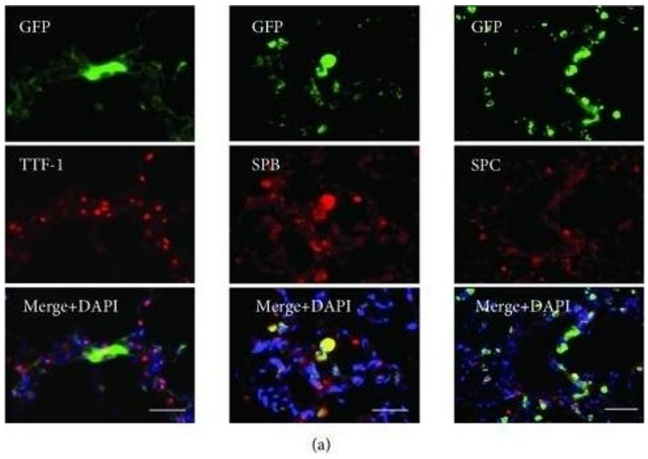
Image 1. #VALUE!



Western Blotting

Image 2. Differentiation into trilineage cells and alveolar epithelial cells of adipose-derived stem cells (ADSCs). (a) Histological analysis of differentiation of ADSCs into adipogenic, osteogenic, and chondrogenic lineages. Adipogenic differentiation was assessed with oil red O staining. Osteogenic differentiation was examined using alkaline phosphatase staining. Chondrogenic differentiation of ADSCs was examined by alcian blue staining. ADSCs have the capacity to differentiate into each mesenchymal lineage. Scale bars: 50μm. (b) Western blot analysis of ADSCs. Expression of TTF-1, Pro SPB, and SPC is shown. MLE-12 is a murine lung epithelial cell line. (c) Real-time quantitative RT-PCR analysis of ADSCs. ADSCs were cultured in small airway growth medium (SAGM) or with the stepwise protocol for 28 days. Expression of EPCAM and Cdh-1 (epithelial markers) and Nkx2-1, Sftpb, and Sftpc (type 2 alveolar epithelial cell markers) was analyzed with RT-PCR on day 28 (n = 3). Each value was normalized to the level of Gapdh. ND: not detected. (d) Immunofluorescence staining of ADSCs with anti-EPCAM, anti-TTF-1, anti-SPB, and anti-SPC. Control: ADSCs cultured in growth medium, SAGM: ADSCs cultured in SAGM, stepwise prc: ADSCs cultured with the stepwise protocol. Scale bars: 100μm. (e) Transmission electron microscopy of ADSCs. Lamellar body-like

structures were observed in ADSCs cultured in SAGM or with the stepwise protocol for 28 days. Scale bars: 2μm. - figure provided by CiteAb. Source: PMID31281377



Immunohistochemistry

Image 3. Differentiation of engrafted GFP-labeled ADSCs in the lung of the emphysematous mouse model. (a) Immunohistochemical staining of anti-TTF-1, anti-SPB, and anti-SPC in GFP-positive cells in an emphysematous mouse lung. Scale bars: 50μm. (b) Isolation of GFP-labeled ADSCs with fluorescence-activated cell sorting (FACS) on day 21. (c) Real-time quantitative RT-PCR analyses of Sftpb and Sftpc in GFP-labeled ADSCs sorted from a murine lung with FACS (each day, n = 6). (d) Cells were isolated from the lungs of control mice, GFP mice, and PPE+/ADSCs+ mice and analyzed for the percent of GFP+/SPC+ cells by flow cytometry. A representative FACS dot plot is shown. - figure provided by CiteAb. Source: PMID31281377

Please check the product details page for more images. Overall 4 images are available for ABIN7443620.