Datasheet for ABIN1098147

anti-Surfactant Protein C antibody (AA 60-180)

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Overview

Quantity:	0.1 mg
Target:	Surfactant Protein C (SFTPC)
Binding Specificity:	AA 60-180
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Surfactant Protein C antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Purified recombinant fragment of human SFTPC (AA: 60-180) expressed in E. coli.
Clone:	5E6A9
Isotype:	IgG1
Purification:	purified

Target Details

Target:	Surfactant Protein C (SFTPC)
Alternative Name:	SFTPC (SFTPC Products)
Background:	Description: This gene encodes the pulmonary-associated surfactant protein C (SPC), an extremely hydrophobic surfactant protein essential for lung function and homeostasis after

Target Details

	birth. Pulmonary surfactant is a surface-active lipoprotein complex composed of 90 % lipids and 10 % proteins which include plasma proteins and apolipoproteins SPA, SPB, SPC and SPD. The surfactant is secreted by the alveolar cells of the lung and maintains the stability of pulmonary tissue by reducing the surface tension of fluids that coat the lung. Multiple mutations in this gene have been identified, which cause pulmonary surfactant metabolism dysfunction type 2, also called pulmonary alveolar proteinosis due to surfactant protein C deficiency, and are associated with interstitial lung disease in older infants, children, and adults. Alternatively spliced transcript variants encoding different protein isoforms have been identified. , , Aliases: SP-C, PSP-C, SFTP2, SMDP2
Molecular Weight:	21 kDa
Gene ID:	6440
HGNC:	6440

Application Details

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

Publications

Product cited in:	Hirano, Sakanaka, Yoshimi, Sugimoto, Eguchi, Yamauchi, Nara, Maeda, Ami, Gotoh, Katayama, Iida, Kato, Ohno, Fukiya, Yokota, Nishimoto, Kitaoka, Nakai, Kurihara: "Next-generation prebiotic promotes selective growth of bifidobacteria, suppressing Clostridioides difficile." in: **Gut**

Publications

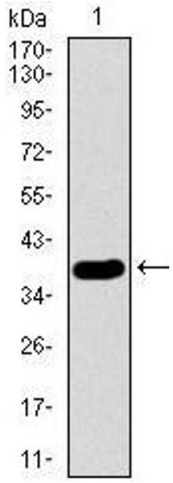
microbes, Vol. 13, Issue 1, pp. 1973835, (2022) (PubMed).

von Schwartzenberg, Bisanz, Lyalina, Spanogiannopoulos, Ang, Cai, Dickmann, Friedrich, Liu, Collins, Ingebrigtsen, Miller, Turnbaugh, Patterson, Pollard, Mai, Spranger, Turnbaugh: "Caloric restriction disrupts the microbiota and colonization resistance." in: **Nature**, Vol. 595, Issue 7866, pp. 272-277, (2021) (PubMed).

Edwards, Krall, McBride: "Strain-Dependent RstA Regulation of Clostridioides difficile Toxin Production and Sporulation." in: **Journal of bacteriology**, Vol. 202, Issue 2, (2020) (PubMed).

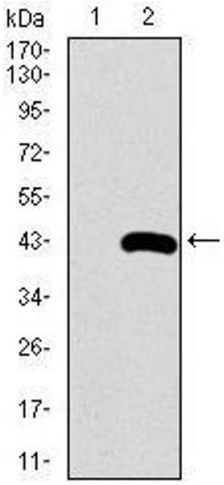
Dhillon, Johnson, Shannon, Greenwood, Roberts, Bustin: "Homogeneous and digital proximity ligation assays for the detection of Clostridium difficile toxins A and B." in: **Biomolecular detection and quantification**, Vol. 10, pp. 2-8, (2016) (PubMed).

Images



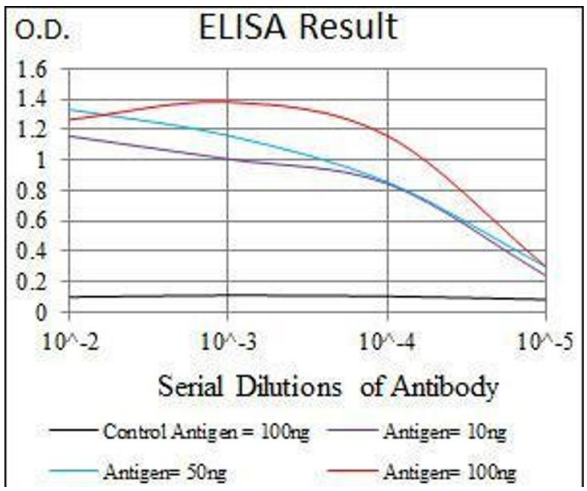
Western Blotting

Image 1. Western blot analysis using SFTPC mAb against human SFTPC recombinant protein. (Expected MW is 38.4 kDa)



Western Blotting

Image 2. Western blot analysis using SFTPC mAb against HEK293 (1) and SFTPC (AA: 60-180)-hIgGFc transfected HEK293 (2) cell lysate.



ELISA

Image 3. Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),