Datasheet for ABIN3043205

anti-Surfactant Protein A1 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	Surfactant Protein A1 (SFTPA1)
Binding Specificity:	AA 233-248, C-Term
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Surfactant Protein A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Pulmonary surfactant-associated protein A(SFTPA1) detection. Tested with WB, IHC-P in Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of mouse SFTPA1(233-248aa WNDKGCLQYRLAICEF), identical to the related rat sequence.
Sequence:	WNDKGCLQYR LAICEF
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Pulmonary surfactant-associated protein A(SFTPA1) detection. Tested with WB, IHC-P in Mouse,Rat. Gene Name: surfactant protein A1 Protein Name: Pulmonary surfactant-associated protein A

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Surfactant Protein A1 (SFTPA1)
Alternative Name:	SFTPA1 (SFTPA1 Products)
Background:	Surfactant protein A is an innate immune system collectin. The gene encoding SP-A map to mouse chromosome 14. Surfactant protein-A, which plays a role in innate host defense in the lung, is also expressed in the Eustachian tube. We report that the frequency of specific surfactant protein-A haplotypes and genotypes differs between children with recurrent otitis media compared with a control population. Synonyms: 35 kDa pulmonary surfactant-associated protein antibody|Alveolar proteinosis protein antibody|COLEC4 antibody|Collectin 4 antibody|PSAP antibody|PSPA antibody|Pulmonary surfactant apoprotein antibody|Pulmonary surfactant-associated protein A1 antibody|SFTP1 antibody|SFTPA antibody|SFTPA1 antibody|SFTPA1B antibody|SP A antibody|SP A1 antibody
UniProt:	P35242

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized

Handling

Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

Product cited in:

Ostermann, Seeliger, David, Flasche, Maus, Reinboth, Christmann, Neumann, Brand, Seltmann, Bühling, Paton, Roth, Vogl, Viemann, Welte, Maus: "S100A9 is indispensable for survival of pneumococcal pneumonia in mice." in: **PLoS pathogens**, Vol. 19, Issue 7, pp. e1011493, (2023) (PubMed).

Ostermann, Maus, Stolper, Schütte, Katsarou, Tumpara, Pich, Mueller, Janciauskiene, Welte, Maus: "Alpha-1 antitrypsin deficiency impairs lung antibacterial immunity in mice." in: **JCI insight**, Vol. 6, Issue 3, (2021) (PubMed).

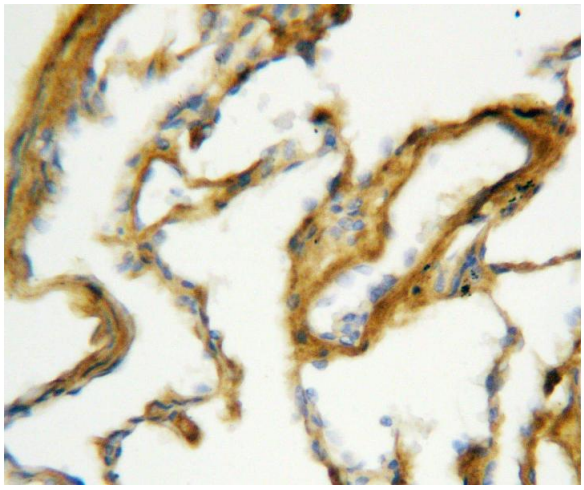
Hu, Wang, Rao, Zhao, Yang, Hu, He, Xia, Liu, Zhen, Di, Xie, Xia, Zhu: "Alterations in the endometrium of rats, rabbits, and Macaca mulatta that received an implantation of copper/low-density polyethylene nanocomposite." in: **International journal of nanomedicine**, Vol. 9, pp. 1127-38, (2015) (PubMed).

Zhou, Chen, Jiang, Feng, Han: "Effects of bone marrow-derived mesenchymal stem cells transfected with survivin on pulmonary fibrosis in mice." in: **Experimental and therapeutic medicine**, Vol. 10, Issue 5, pp. 1857-1864, (2015) (PubMed).

Publications

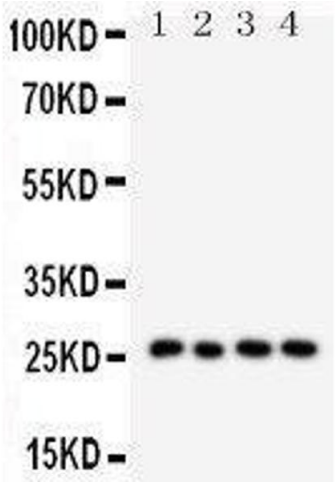
Wu, You, Ma, Li, Yuan, Li, Ye, Liu, Yao, Chen, Lai, Yang: "Role of transient receptor potential ion channels and evoked levels of neuropeptides in a formaldehyde-induced model of asthma in BALB/c mice." in: **PLoS ONE**, Vol. 8, Issue 5, pp. e62827, (2013) (PubMed).

Images



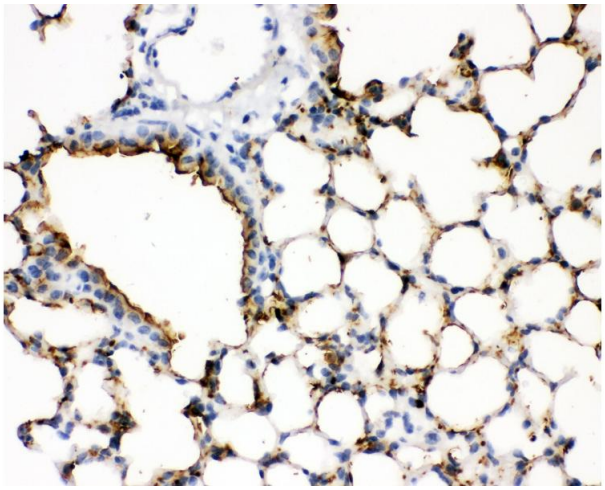
Immunohistochemistry

Image 1. Anti-Surfactant Protein A antibody, IHC(P) IHC(P): Rat Lung Tissue



Western Blotting

Image 2. Anti-Surfactant Protein A antibody, Western blotting Lane 1: Mouse Lung Tissue Lysate Lane 2: Mouse Lung Tissue Lysate Lane 3: Rat Lung Tissue Lysate Lane 4: Rat Lung Tissue Lysate



Immunohistochemistry

Image 3. IHC analysis of SFTPA1 using anti- SFTPA1 antibody . SFTPA1 was detected in paraffin-embedded section of mouse lung tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti- SFTPA1 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used

as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.