

Rabbit anti-Mouse, Rat Surfactant Protein A Polyclonal Antibody | anti-SFTPA1 antibody

Polyclonal Anti-SFTPA1 Antibody

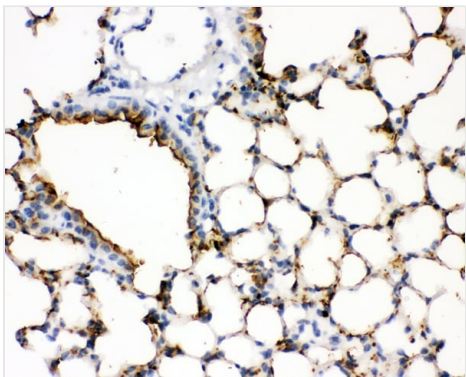
CATALOG # AAA11521	HOST Rabbit	REACTIVITY Mouse, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

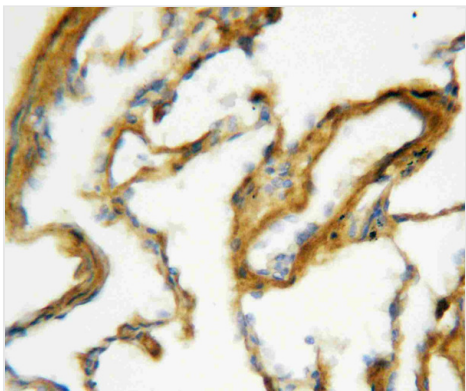
Surfactant Protein A; Polyclonal Antibody; Polyclonal Anti-SFTPA1 Antibody; Pulmonary surfactant-associated protein A; surfactant protein A1; anti-SFTPA1 antibody

PRODUCT SPECIFICATIONS

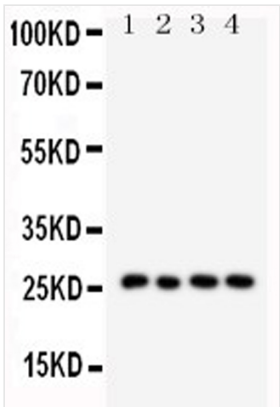
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	248
Applicable Applications for anti-SFTPA1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot: Concentration: 0.1-0.5ug/ml Tested Species: Ms, Rat Immunohistochemistry (Paraffin-embedded Section): Concentration: 0.5-1ug/ml Tested Species: Rat Predicted Species: Ms Antigen Retrieval: By Heat Tested Species: In-house tested species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. By Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH6.0, for 20 mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Surfactant Protein A (233-248aa WNDKGCLQYRLAICEF), identical to the related rat sequence.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Reconstitution	0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Preparation and Storage	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.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of SFTPA1 using anti- SFTPA1 antibody (AAA11521).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 1ug/ml rabbit anti- SFTPA1 Antibody (AAA11521) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of SFTPA1 using anti- SFTPA1 antibody (AAA11521).SFTPA1 was detected in paraffin-embedded section of rat 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 1ug/ml rabbit anti- SFTPA1 Antibody (AAA11521) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of SFTPA1 using anti- SFTPA1 antibody (AAA11521).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: mouse lung tissue lysates,Lane 2: mouse lung tissue lysates,Lane 3: rat lung tissue lysates,Lane 4: rat lung tissue lysates.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- SFTPA1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SFTPA1 at approximately 26KD. The expected band size for SFTPA1 is at 26KD.

ADDITIONAL INFORMATION

Related Product Information for anti-SFTPA1 antibody	Description: Rabbit IgG polyclonal antibody for Pulmonary surfactant-associated protein A(SFTPA1) detection. Tested with WB, IHC-P in Mouse, Rat. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	464483
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NCBI GeneID	20387
UniProt Accession #	P35242
NCBI Official Full Name	Pulmonary surfactant-associated protein A
NCBI Official Synonym Full Names	surfactant associated protein A1
NCBI Official Symbol	Sftpa1
NCBI Official Synonym Symbols	SP-A; Sftp1; Sftp-1
NCBI Protein Information	pulmonary surfactant-associated protein A; PSAP; PSP-A; surfactant pulmonary associated protein A1
UniProt Protein Name	Pulmonary surfactant-associated protein A
UniProt Gene Name	Sftpa1
UniProt Synonym Gene Names	Sftp-1; Sftp1; Sftpa; PSAP; PSP-A; SP-A
UniProt Entry Name	SFTPA_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/surfactant-protein-a-antibody-western-blot-immunohistochemistry-elisa/11521>