

Rabbit Surfactant protein D Polyclonal Antibody | anti-SFTPD antibody

Surfactant protein D Antibody

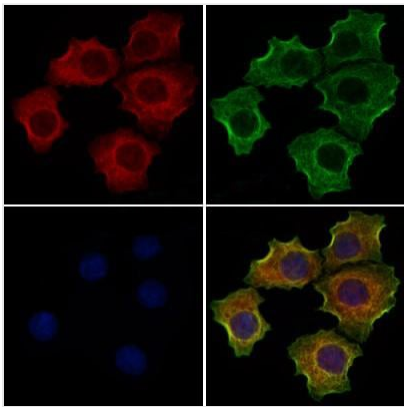
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329122	Rabbit	Human, Mouse, Rat Predicted Reactivity: Bovine(100%), Horse(100%), Sheep(100%), Rabbit(86%), Dog(100%)	ELISA

PRODUCT SYNONYMS

Surfactant protein D; Polyclonal Antibody; Surfactant protein D Antibody; COLEC 7; COLEC7; Collectin-7; Collectin7; Lung surfactant protein D; PSP D; PSP-D; PSP-D Surfactant protein D; PSPD; Pulmonary surfactant apoprotein; Pulmonary surfactant associated protein D; Pulmonary surfactant associated protein PSP-D; Pulmonary surfactant-associated protein D; SFTP 4; SFTP4; SFTPD; SFTPD_HUMAN; SP D; SP-D; Surfactant associated protein pulmonary 4; Surfactant pulmonary associated protein D; anti-SFTPD antibody

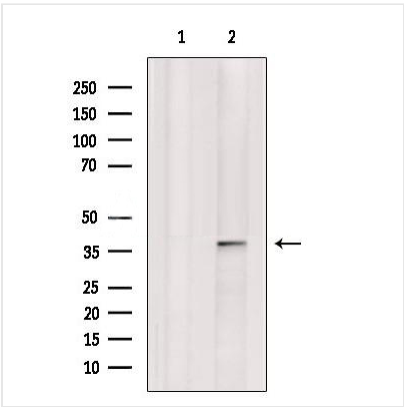
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Bovine(100%), Horse(100%), Sheep(100%), Rabbit(86%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Surfactant protein D Antibody detects endogenous levels of total Surfactant protein D.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	375
Applicable Applications for anti-SFTPD antibody	ELISA
Immunogen	A synthesized peptide derived from human Surfactant protein D, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



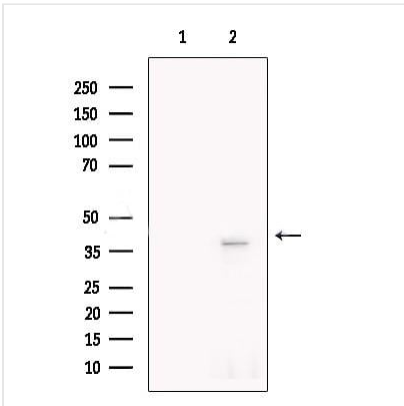
IF (Immunofluorescence)

AAA329122 staining HepG2 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329122 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from 3T3, using Surfactant protein D Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from Rat lung, using Surfactant protein D Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SFTPD antibody

Function: Contributes to the lung's defense against inhaled microorganisms, organic antigens and toxins. Interacts with compounds such as bacterial lipopolysaccharides, oligosaccharides and fatty acids and modulates leukocyte action in immune response. May participate in the extracellular reorganization or turnover of pulmonary surfactant. Binds strongly maltose residues and to a lesser extent other alpha-glucosyl moieties.

Post Translational Modifications: The N-terminus is blocked. Hydroxylation on proline residues within the sequence motif, GXPG, is most likely to be 4-hydroxy as this fits the requirement for 4-hydroxylation in vertebrates. S-nitrosylation at Cys-35 and Cys-40 alters the quaternary structure which results in a pro-inflammatory chemoattractive signaling activity with macrophages.

Subcellular Location: Secreted>Extracellular space>Extracellular matrix. Secreted>Extracellular space>Surface film.

Tissue Specificity: Expressed in lung, brain, pancreas and adipose tissue (mainly mature adipocytes).

Subunit Structure: Oligomeric complex of 4 set of homotrimers.

Similarity: Belongs to the SFTPD family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	61699226
NCBI GeneID	6441
NCBI Accession #	NP_003010.4
NCBI GenBank Nucleotide #	NP_003010.4
UniProt Accession #	P35247
Molecular Weight	Observed Molecular Weight: (Observed)38kD. Predicted Molecular Weight: (Calculated)38kDa.
NCBI Official Full Name	pulmonary surfactant-associated protein D
NCBI Official Synonym Full Names	surfactant protein D
NCBI Official Symbol	SFTPD
NCBI Official Synonym Symbols	SP-D; PSP-D; SFTP4; COLEC7
NCBI Protein Information	pulmonary surfactant-associated protein D
UniProt Protein Name	Pulmonary surfactant-associated protein D
UniProt Gene Name	SFTPD
UniProt Synonym Gene Names	COLEC7; PSPD; SFTP4; PSP-D; SP-D
UniProt Entry Name	SFTPD_HUMAN

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://www.aaabiotech.com/polyclonal/surfactant-protein-d-antibody-elisa/329122>