

anti-Human, Rat Surfactant protein D Polyclonal Antibody | anti-SFTPD antibody

Anti-Surfactant protein D Antibody

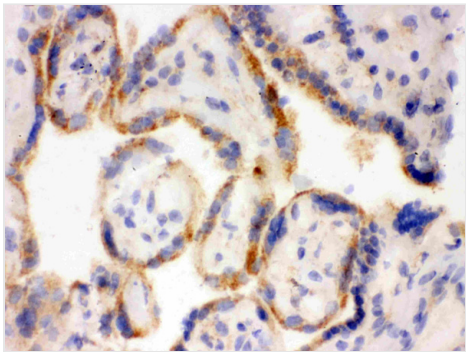
CATALOG # AAA46416	REACTIVITY Human, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

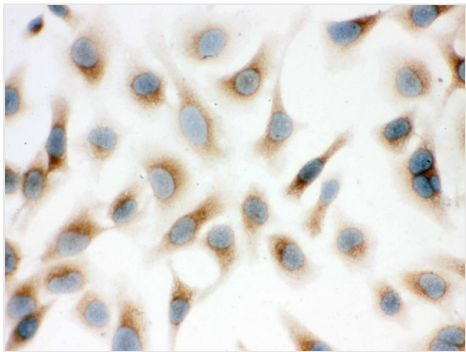
Surfactant protein D; Polyclonal Antibody; Anti-Surfactant protein D Antibody; Pulmonary surfactant-associated protein D; COLEC 7; COLEC7; Collectin-7; Collectin7; Lung surfactant protein D; PSP D; PSP-D; PSP-D Surfactant protein D; PSPD; Pulmonary surfactant apoprotein; Pulmonary surfactant associated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

PRODUCT SPECIFICATIONS

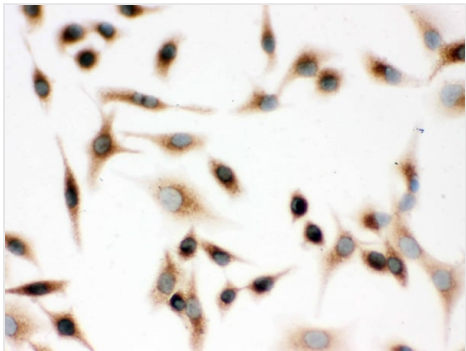
Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Sequence Length	375
Applicable Applications for anti-SFTPD antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Surfactant protein D (292-321aa RSAAENAALQQLVVAKNEAFLSMTD SKTE), different from the related mouse and rat sequences by eight amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



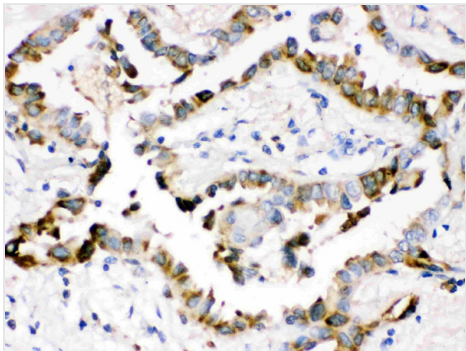
IHC (Immunohistochemistry)
Figure 5. IHC analysis of Surfactant protein D using anti-Surfactant protein D antibody (AAA46416).Surfactant protein D was detected in frozen section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Surfactant protein D Antibody (AAA46416) 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. 5



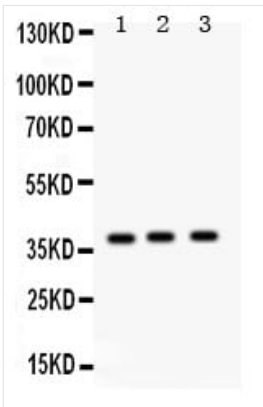
IHC (Immunohistochemistry)
Figure 4. IHC analysis of Surfactant protein D using anti-Surfactant protein D antibody (AAA46416).Surfactant protein D was detected in immunocytochemical section of Hela cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Surfactant protein D Antibody (AAA46416) 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 3. IHC analysis of Surfactant protein D using anti-Surfactant protein D antibody (AAA46416).Surfactant protein D was detected in immunocytochemical section of A549 cell. 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-Surfactant protein D Antibody (AAA46416) 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)
Anti- Surfactant protein D Picoband antibody, AAA46416, IHC(P)IHC(P): Human Lung Cancer Tissue



WB (Western Blot)
Anti- Surfactant protein D Picoband antibody, AAA46416, Western blottingAll lanes: Anti Surfactant protein D (AAA46416) at 0.5ug/mL Lane 1: Rat Lung Tissue Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugLane 3: PANC Whole Cell Lysate at 40ugPredicted bind size: 38KDObserved bind size: 38KD

ADDITIONAL INFORMATION

Related Product Information for anti-SFTPD antibody	Description: Rabbit IgG polyclonal antibody for Pulmonary surfactant-associated protein D(SFTPD) detection. Tested with WB, IHC-P, ELISA in Human; Rat. Background: Surfactant, pulmonary-associated protein D, also known as SFTPD or SP-D, is a protein which in humans is encoded by the SFTPD gene. It is mapped to 10q22.2-q23.1. The protein encoded by this gene is part of the innate immune response, protecting the lungs against inhaled microorganisms and chemicals. The encoded protein may also be involved in surfactant metabolism.
References	1. Brandt EB, Mingler MK, Stevenson MD, Wang N, Khurana Hershey GK, Whitsett JA, Rothenberg ME (May 2008). "Surfactant protein D alters allergic lung responses in mice and human subjects". J. Allergy Clin. Immunol. 121 (5): 1140-1147.e2. 2. Lu J, Willis AC, Reid KB (June 1992)."Purification, characterization and cDNA cloning of human lung surfactant protein D". Biochem. J. 284. 284 (Pt 3): 795-802. 3. Rust K, Grosso L, Zhang V, Chang D, Persson A, Longmore W, Cai GZ, Crouch E (October 1991). "Human surfactant protein D: SP-D contains a C-type lectin carbohydrate recognition domain". Arch. Biochem. Biophys. 290 (1): 116-26.

NCBI AND UNIPROT INFORMATION

NCBI GI #	61699226
NCBI GeneID	6441
NCBI Accession #	NP_003010.4
NCBI GenBank Nucleotide #	NM_003019.4
UniProt Accession #	P35247; Q5T0M3; Q6FH08; Q86YK9; Q8TCD8; Q9UCJ2; Q9UCJ3
Molecular Weight	37,728 Da
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.